

# INDIAN SOLAR ENERGY RESOURCES INDEX

## TATA ENERGY RESEARCH INSTITUTE DOCUMENTATION CENTRE

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#### INTRODUCT ION

There has been considerable emphasis on solar energy research in India ever since 1975. Consequently, more than 45 organisations including various research laboratories, universities and industries are now engaged in furthering research within the scope of national policies and priorities.

"Indian Solar Energy Resources Index" presented here, is a record of major Indian solar energy resource papers.

Main text of the index provides bibliographic details of over 700 documents, which are systematised according to a scheme outlined in the contents page. Author index given at the end also facilitates additional access to the main text.

We are indeed grateful to the authors who readily sent us reprints of their papers. Every attempt has been made to make this publication as comprehensive as possible. Any work inadvertantly omitted here will find a place in the subsequent editions.

## CONTENTS

		Page Nos.
1 -	SOLAR RADIATION	1
2	COLLECTORS AND COLLECTOR SYSTEMS	3
2.1	FLAT-PLATE COLLECTORS	5
2.2	SOLAR PONDS	9
2.3	CONCENTRATING COLLECTORS	10
2.4	SOLAR FURNACES	16
2.5	SELECTIVE SURFACES	. 17
3.1	THERMAL STORAGE	19
3.2	REFRIGERATION AND AIRCONDITIONING	20
3.3	HEAT PIPES, HEAT PUMPS	23
4	SPACE HEATING AND COOLING	24
5	SOLAR THERMAL APPLICATIONS AND DEVICES	27
5.1	WATER HEATING	28
5.2	COOKING	31
5.3	DRYING	33
5.4	DISTILLATION	36
6	PHOTOVOLTAIC CONVERSION	39
6.1	SILICON SOLAR CELLS	47
6.2	CADMIUM SOLAR CELLS	51
6.3	GALLIUM SOLAR CELLS	54
7	POWER GENERATION	54
7.1	MECHANICAL POWER	56
7.2	SOLAR PUMPS	58
8	PHOTOGALVANICS, THERMOELECTRIC CONVERSION, etc.	59
9	GENERAL AND MISCELLANEOUS	61
	INDEX	69
	LATE ADDITIONS	75

#### 1 SOLAR RADIATION (contd.)

WIND POWER MEASUREMENT.

CHATTOPADHYAY, S.N. (National Instruments Ltd., Calcutta). Sun mankind's future source of energy: Pres. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.1; 454.

D13. LUMINOUS EFFICIENCY OF DIRECT SOLAR RADIATION.

CHANDRA, M. (Physics Lab., Central Building Res. Institute, Roorkee).
Ind. J. of Meteorology, Hydrology and Geophysics. 29,4;1978;667-670.

014. MEASUREMENTS OF GLOBAL SOLAR RADIATION
(K♣) AT BOMBAY.

GANESAN, H.R. (Meteorological Office, Pune-411 005). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979. 133-7.

O15. MEASUREMENTS OF RADIATION BALANCE COMPONENTS OVER A WATER SURFACE.

KELKAR, R.R. and PRADHAN, T.D. (Meteorological Office, Pune).
Ind. J of Meteorology, Hydrology and Geophysics. 28.3:1977; 349-54.

D16. MEASUREMENT OF SOLAR RADIATION (GLOBAL AND DIFFUSE) ATMOSPHERIC TURBIDITY
AND SUNSHINE AT BRAVNAGAR (GUJARAT).

BHATT, M.M. (Central Salt and Marine Chemicals Res. Institute, Bhavnagar, Gujarat). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, January 1978.Vol.1:435. 017. MEASUREMENT OF SOLAR RADIATION FOR ENERGY CONVERSION.

MANI, A. (Raman Res. Institute, Bangalore, 560 006).
Sun mankind's future source of energy: Proof the Int. Solar Energy Society Congress, New Delhi, January 1978. Vol.1; 392.

OTB. PLACEMENT OF INSULATION IN A CONCRETE WALL.

SODHA, M.S. and SETH, A.K. (Center of Energy Studies, Indian Institute of Technology, New Delhi 110 029).
Int. J. of Energy Research.3,3; July-Sept 1979: 235-241.

019. PREDICTION OF HOURLY DIRECT AND DIFFUSE SOLAR RADIATION FOR INDIAN CITIES.

KANDLIKAR, S.G. and DHARAP, A.M. (Dept. of Mech. Engg., Indian Institute of Technology, Bombay ). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.138-42.

<u>020.</u> PREDICTION OF HOURLY SOLAR RADIATION IN INDIA ON CLEAR DAYS.

MODI, Vijay and SUKHATME, S.P. (Mech. Engg. Dept. Indian Institute of Technology, Bombay).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.8-13.

021. RADIATION AND CLOUDINESS OVER INDIA.

GANESAN, H.R. (Meteorological Office, Pune - 5). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, January 1978. Vol.1:455.

#### 1 SOLAR RADIATION (contd.)

022. RADIATION DESIGN DATA FOR SOLAR ENERGY APPLICATIONS.

GUPTA, C.L. and others (Tata Energy Res. Institute, Field Res. Unit, Pondicherry). Energy Management. 3,4; Oct-Dec 1979;299-313.

023. RADIATION MEASUREMENTS FOR SOLAR ENERGY UTILIZATION.

MANI, A. (Raman Res. Institute, Bangalore). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.52-5.

024. REVIEW OF SOLAR RADIATION MEASUREMENTS IN INDIA.

RANGARAJAN, S. and DESIKAN, V. (Meteorological Office, Poona - 411 005).

Proc. 7th All India Meeting of All India Solar Energy Working group and conf. on the Utilization of Solar Energy. Ludhiana. Nov.1975.32-8.

025. SOLAR ENERGY AVAILABILITY OVER INDIA FOR MAXIMUM UTILISATION.

GANESAN, H.R. (Meteorological Office, Pune 411 005). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec. 1978.1-7.

026. SOLAR RADIATION.

MANI, A. (Raman Res. Institute, Bangalore). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec. 1978. 549-75.

027. SOLAR RADIATION MEASUREMENTS AND STUDIES OF ATMOSPHERIC TRANSMISSION AT HIGH ALTITUDE STATIONS IN INDIA.

MANI, A. and others. (Meteorological Office, New Delhi 110 003). Ind J of Meteorology, Hydrology and Geophysics. 28,1;1977: 51-62. 028. SOME ASPECTS OF RADIATION CLIMATOLOGY IN RELATION TO APPLIED SOLAR ENERGY.

CHANDRA, M. (Physics Laboratory, Central Building Res. Institute, Roorkee).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.
1976.159-62.

029. SPECTRAL CHARACTERISTICS OF DIRECT SOLAR RADIATION.

RANGARAJAN, S. and others.
International Soler Energy Congress. Los
Angeles. 1975.

030. SPECTRAL DISTRIBUTION OF GLOBAL SOLAR RADIATION AT POONA.

RANGARAJAN, S. and RAHALKAR, C.G. (India. Meteorological Dept., New Delhi). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976. 38-43.

#### 2 COLLECTORS AND COLLECTOR SYSTEMS

031. BLACK-LIQUID SOLAR COLLECTOR.

PILLAI, P.K.C. and AGARWAL, R.C. (Centre of Energy Studies, Indian Institute of Technology, New Delhi 110 029).
Sunworld.3,4;1979;108-10.

032. DIRECT MEASUREMENT OF OVER ALL HEAT LOSS COEFFICIENT OF SOLAR COLLECTORS

NAHAR, N.M. (Central Arid Zone Res. Institute, Jodhpur). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.46-51.

#### 2 COLLECTORS AND COLLECTOR SYSTEMS (contd.)

033. EFFECT OF BUOYANCY ON HEAT TRANSFER RATES IN A SOLAR COLLECTOR.

VERMA, M.L. (Dept. of Mech. Engg., Govt. College of Engg. and Tech., Raipur, M.P.) and others.

Proceedings of the National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.190-2.

034. LOAD SHARING IN SOLAR ENERGY COLLECTION SYSTEMS.

SAINI, J.S. and PRAKASH,R, (Mech. and Industrial Engg. Dept., Univ. of Roorkee, Roorkee).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay.
Dec 1979.470-5.

035. OPTIMUM SOLAR ENERGY COLLECTION.

ACHARYA, S.K. and MISRA, L.N. (Dept. of Mech. Engg., Regional Engg. College; Rourkela 8). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976. 181-5.

036. OPT IMUM TUBE PITCH IN SOLAR COLLECTORS.

NIGAGUNA, 8.T. and SHENOY, S.U. (Karnataka Regional Engg. College, Surathkal 574 157. Karnataka). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2, 1107-10.

037. PERFORMANCE EVALUATION OF SPIRAL SOLAR COLLECTOR.

MILLAI, P.K.C. and AGARWAL, R.C. (Dept. of Physics, Indian Institute of Technology, New Delhi 110 029).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Sombay. Dec 1979.153-7.

PERFORMANCE OF AN INEXPENSIVE CONSTANT FLOW SOLAR COLLECTOR/STORAGE SYSTEM IN GROUND.

SOOHA, M.S. (Centre of Energy Studies, Indian Institute of Technology, New Belhi -110 029) and others. Int. J. of Energy Research.3,4;0ct-Dec 1979W

039. RESEARCH AND PRODUCT DEVELOPMENT PROGRAMME IN THE AREA OF SOLAR THERMAL FRERCY.

SHARAN, H.N. (Bharat Heavy Electricals Ltd., New Delhi).
Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.
1976.49-51.

O40. SIMULATION STUDY OF NATURAL CONVECTION HEAT TRANSFER IN INCLINED AIR LAYERS WITH APPLICATION TO SOLAR ENERGY COLLECTION.

BASU, S.P. and CHAKRABORTY, D. (Dept. of Applied Physics. Calcutta Univ., 92, Acharya Prafulla Chandra Road, Calcutta 700 009). Sun mankind's future source of energy: Proc of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2, 971-4.

041. SOLAR COLLECTOR OPTIMIZATION.

SAINI, J.S. and GUPTA, C.P. (Mech. and Industrial Engg. Dept., Univ. of Roorkes, Roorkes).

Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2, 1087-91.

O42. SOLAR ENERGY: ARCHITECTURAL IMPERATIVE AND PROBLEM OF COLLECTORS.

SATHYANARAYAN, R.G. (Dept. of Architecture and Planning, Kudremukh Iron Ore Company Ltd., Bangalore.) Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.204-6

## 2 COLLECTORS AND COLLECTOR SYSTEMS (contd.)

CA3. SOME ASPECTS TOWARDS THE PERFORMANCE EVALUATION AND ENSUING DESIGN COMPONENTS OF SOLAR COLLECTOR SYSTEMS.

SABBERWAL, S.P. and MATHUR, S.S. (Centre of Energy Studies, Indian Institute of Technology, New Delhi - 110 029). Sun mankind's future source of energy:Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2.988-91.

TEMPERATURE OPTIMIZATION FOR POWER PRODUCTION OF INFINITE HEAT TRANSFER SOLAR ABSORBERS.

CHEEMA, L.S. and SINGH, P. (Punjab Agril. Univ. Ludhiana 141 004).
Int. Conf. on Heliotechnique and Development; Dhahran, Saudi Arabia.1975.
194-204.

#### 2.1 FLAT-PLATE COLLECTORS.

Nov 1975.73-9.

O45. ANALYSIS FOR THE OPTIMUM TILT OF A FLAT PLATE COLLECTOR - A PRACTICAL APPROACH.

AGRAWAL, H.C. and SHAH, R.K. (Dept. of Mech. Engg., Indian Institute of Technology, Kanpur).

Proc. of 7th meeting of All India Solar Energy Working Group and conf. on utilization of Solar Energy. Ludhians.

O46. CHEAP PACKED BED ABSORBERS FOR SOLAR AIR HEATERS.

SINGH, PARAMPAL. (Dept.of Mech. Engg. Punjab Agril. Univ., Ludhiana, Punjab). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2, 900-4.

047. CHEAP PACKED-BED SOLAR AIR HEATERS.

SINGH, PARAMPAL.(Dept. of Mech. Engg., Punjab Agril. Univ., Ludhiana, Punjab). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.162-4.

O48. CHEAP ROOF TYPE SOLAR AIR HEATERS FOR INDUSTRIES.

MUTHUVEERAPPAN, V.R. and IYNKARAN, K. (Mech. Engg. Dept., Annamalai Univ., Annamalainagar - 608 101).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar.
Dec 1978.703-8.

049. CONDUCTION EFFECTS IN SOLAR AIR HEATERS.

BANSAL, Pradeep and KAUSHIK, S.C. (Centre of Energy Studies, Indian Institute of Technology, New Delhi 110 029.)
Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay.
Dec.1979.17-22.

050. COST EFFECTIVE OPTIMUM DESIGN OF SOLAR AIR HEATERS.

MUTHUVEERAPPAN, V.R. and IYNKARAN, K. (Dept. of Mech. Engg., Annamalai Univ., Annamalainagar 608 101). Sun mankind's future source of energy:Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2,890-4.

OS1. DAMAGE OF INSULATION IN FLAT PLATE SOLAR COLLECTORS BY THE STOPPAGE OF FLUID FLOW.

GOYAL, I. C. and others.
Technical Report. TR-77-S-03. Centre of
Energy Studies, Indian Institute of
Technology, New Delhi 118 029. 1977.

#### 2.1 FLAT-PLATE COLLECTORS (contd.)

052. DESIGN AND OPTIMIZATION OF A FLAT.
PLATE COLLECTOR FOR COOLING APPLICATION.

LADSAONGIKAR, U. V. (Tata Electric Companies, Trombay Thermal Station, Bombay.) and PARIKH, P.P. (Mech. Engg. Dept. Indian Institute of Technology, Powai, Bombay).

Sun mankind's future source of energy:Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2, 1092-1101.

053. DESIGN OPTIMIZATION AND PERFORMANCE
PREDICTION OF FLAT PLATE COLLECTOR —
A DEVICE SUITABLE FOR SOLAR ENERGY
APPLICATION.

GARG, H.P. (Central Arid Zone Res. Institute, Jodhpur). Proc. of 7th meeting of All India Solar Energy Working Group and Conf. on utilization of Solar Energy. Ludhiana. Nov 1975.147-53.

054. DETERMINATION OF SHADING FACTOR FOR FLAT PLATE COLLECTORS.

DAGAR, S.L. (Central Salt and Marine Chemicals Research Institute, Bhavnagar) and GUPTA, C.P. (Dept. of Mech. Engg., Univ. of Roorkee, Roorkee). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.196-8.

OSS. ECONOMICAL DESIGN OF FLAT-PLATE COLLECTOR.

KULKARNI, P.K. (Mohor, 64/17 Erandavane, Pune 411 004). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec. 1978.97-101.

OS6. EFFECT OF BOOSTERS ON THE PERFORMANCE OF FLAT PLATE COLLECTOR.

PANDE, P.C. and others (Central Arid Zone Res. Institute, Jodhpur). Proc. National Solar Energy Conventions of Solar Energy Society of India. Shavnagar. Dec. 1978.61-70. 057. EFFECT OF BUOYANCY AND TUBE INCLINATION HEAT TRANSFER IN A SOLAR AIR HEATE

VERMA, M.L. and STHAPAK, B.K. (Govt. College of Engg. and Technology, Raipur (M.P.). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2,978-9.

OSB. EFFECT OF CLIMATIC PARAMETERS AND COVE GLAZINGS ON STAGNATION PLATE TEMPERATURE IN FLAT PLATE SOLAR COLLECTORS.

NAHAR, N.M. (Central Arid Zone Res. Institute Jodhpur) and others. Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.41-5.

O59. EFFECT OF GAP-SPACING ON CONVECTIVE LOSSES IN FLAT-PLATE COLLECTORS.

MALHOTRA, Ashok and others (Centre of Energy Studies, Indian Institute of Technology, Hauz Khas, New Delhi 110 029).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec. 1979.52-6.

060. EFFECTS OF DIFFERENT PARAMETERS ON THE PERFORMANCE OF A NO-GLASS FLAT PLATE COLLECTOR.

BISWAS, D.K. (Univ. of Agril. Sciences, Bangalore). and others. Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2,1148.

O61. EXPERIMENTAL AND THEORETICAL STUDIES ON HIGH TEMPERATURE SOLAR AIR HEATER. (8.TECH. DISSERTATION).

JOHRAY, A. (Mech. Engg. Dept., Indian Institute of Technology, Bombay). Indian Institute of Technology, Bombay. 1978.

## 2.1 FLAT-PLATE COLLECTORS (contd.).

062. FLAT PLATE COLLECTOR - EXPERIMENTAL STUDIES AND DESIGN DATA FOR INDIA.

GARG, H.P. (Central Arid Zone Res.
Institute, Jodhpur) and GUPTA, C.L.
(Tata Energy Res. Institute, Field Res.
Unit, Sri Aurobindo Ashram, Pondicherry).
Sun mankind's future source of energy:
Proc. of the Int. Solar Energy Society
Congress, New Delhi, Jan 1978. Vol. 2;
1134-46.

O63. FLATE-PLATE SOLAR COLLECTOR DESIGN FOR INDUSTRIAL AIR HEATING USING DESIGN DATA HANDBOOK.

MUTHUVEERAPPAN, V.R. and others (Dept. of Mech. Engg., Annamalai Univ, Annamalainegar).

Proc. National Solar Energy Convention: of Solar Energy Society of India.
Calcutta.1976.201-4.

MONEYCOMB TYPE FLAT PLATE COLLECTORS EXPERIMENTS LEADING TO DRINKING STRAW.

HANDA, S.K. (Indian Institute of Management, Ahmedabad - 380 015) and others. Sun mankind's future source of energy:Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2. 1131-3.

065. LIQUID FLAT PLATE SOLAR COLLECTORS: TEST FACILITY AND TEST DATA.

FGUPTA, C.L. and others (Tata Energy Res. Institute, Field Res. Unit, Pondicherry-605 002).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Enmbay. Dec 1979.29-35.

## 066. LIQUID SOLAR COLLECTOR

SEETHARAMU, K.N. and BALIGA, B. V. (Dept. of Mech. Engg., Indian Institute of Technology, Madras 600 036).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2.1190-4.

067. MINIMISING OF HELIOSTATING PROBLEMS (BY SPECIAL GEOMETRIC FIXING OF MIRRORS.).

VARGHESE, Chacko (22-Y.M.C.A. Hostel, EKM, Cochin, Kerala-682 011).
Sun mankind's future source of energy:
Proc. of the Int. Solar Energy Society
Congress, New Delhi, Jan 1978. Vol.3,
1357-63.

O68. OPTIMAL GEOMETRIES FOR ONE AND TWO FACED SYMMETRIC SIDE-WALL BOOSTER MIRRORS.

MANNAN, K.D. (Mech. Engg. Dept., Punjab Agril. Univ., Ludhinna) and BANNEROT, R.B. Solar Energy.21,5;1978;385-391.

O69. OFT IM ISING THE PITCHING OF TUBES
IN A FLAT SOLAR COLLECTOR FOR
INCREASING THE EFFICIENCY FOR USE IN VAPOUR
ABSORPTION REFRIGERATION.

LAKSHMANA RAO, [.V. (J.N.T.U. College of Engg., Anantapur, A.P.).
Sun mankind's future source of energy:Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2.1111-4.

O70. OPTIMUM TILT FOR THE FLAT PLATE COLLECTOR.

JAGADISH, B.S. (Indian Institute of Technology, Bombay).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2, 1149-53.

O71. PERFORMANCE OF A FLAT PLACE COLLECTOR WITH G.I. ABSORBER.

SATYANARAYANA, G. and MIRCHANDANI, A.T. (R & D Division, Advani-Oerlikon Ltd., Poona 411 019).

Proc. National Solar Energy Convention: of Solar Energy Society of India.
Bhavnagar. Dec 1978.79-83.

#### 2.1 FLAT-PLATE COLLECTORS (contd.)

072. PERFORMANCE OF FLAT PLATE SOLAR COLLECTOR WITH FLUID UNDERGOING PHASE CHANGE.

SOIN, R.S. (Hindustan Brown Broveri, Baroda 391 710) and others. Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society, Congress, New Delhi, Jan 1978.Vol.2.952-4 Also, Published in: Solar Energy. 23,1; 1979;69-73.

O73. PERFORMANCE OF FLAT PLATE TYPE AIR HEATER.

DANDE, D.V. and JAGADISH, B. S. (Dept. of Mech. Engg., Indian Institute of Technology, Bombay 400 076). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec.1979.12-16.

074. PERFORMANCE OF PARALLEL FLOW PACKED BED AIR HEATERS.

CHEEMA, L.S. and MANNAN, K.D. (Punjab Agril. Univ., Ludhiana - 141 804). 1979 Int. Tongress joint meeting with American Section of International Solar Energy Society Atlanta, Georgia.1979.

O75. PERFORMANCE STUDIES ON A FLAT
PLATE COLLECTOR ARRAY WITH BOOSTER
MIRRORS AND AN ASSOCIATED HOT WATER
THERMAL STORAGE TANK.

SUKHATME, S.P. and others (Mech. Engg. Dept., Indian Institute of Technology Powai, Bombay 400 076).

Proc. National Solar Energy Convention:of Solar Energy Society of India. Bombay.
Dec. 1979.36-40.

D76. PERFORMANCE STUDY OF PLASTIC FRESNEL LENSES FOR CONCENTRATING SUNLIGHT ON PHOTOVOLTAIC MODULES.

project, Central Electronics Ltd., Industrial Area 4, Sahibabad, U.P.). Proc. National Solar Energy Convention: of Solar inergy Society of India. Bombay Dec. 1979. 406-10. O77. PERFORMANCE STUDY ON HIGH TEMPERATUR
AIR HEATER.

JOHRAY, A. and JAGADISH, B.S. (Mech. Engg. Dept., Indian Institute of Technology, Bombay).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar.

Dec 1978.102-7.

078. PRESSURE LOSS CHARACTERISTICS AND THERMAL PERFORMANCE OF PACKED BED AIR HEATERS.

SINGH, Parampal and others (Punjab Agril. Univ., Ludhiana 141 004).
Proc. Nationa! Solar Emergy Convention: of Solar Energy Society of India. Shavnagar. Dec. 1978. 108-13.

079. SOLAR COLLECTOR PERFORMANCE OF A FLAT PLATE CYLINDRICAL PARABOLIC CONCENTRATOR AND A FLAT PLATE COLLECTOR.

SINGH, Padam (Development Engg., Jyoti Ltd. Baroda).

Proc. of Simulation, Modelling and Decision in Energy Systems — an Int. Symposium.

Montreal, Canada, June 1978.

OBO. SOLAR ENERGY FLAT PLATE COLLECTORS— OPTIMIZATION OF AIR GAP.

NAHAR, N.M. and GARG, H.P. (Central Arid Zone Res. Institute, Jodhpur) Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavngar. Dec. 1978.71-8.

OB1. SOLAR ENERGY REFLECTOR USING METALLISED POLYSTRENE.

MITRA, R.N. and DAW, A.N. (Institute of Radio Physics and Electronics, 92, Acharya Prafulla Chandra Road, Calcutta-700 009).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Ealcutta.1976. 56-8.

## 2.1 FLAT- PLATE COILECTORS (contd.)

082. STUDIES UN SOLAR HOT AIR COLLECTURS.

SATYAMURTY, V.V. and others (Energy Division, Jyoti Ltd., Tandalja, Baroda 391 410). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.1-5.

083. STUDY ON FLAT PLATE SOLAR COLLECTORS UNDER TRANSIENT CONDITIONS.

SODHA, M.S. and others (Centre of Energy Studies, Indian Institute of Technology, New Delhi 110 029).
1979 Int. Congress joint meeting with American Section of Int. Solar Energy Society. Atlanta, Georgia, 1979.

OB4. SUGGESTION FOR IMPROVING THE HEAT TRANSFER FROM SOLAR HEATERS.

ZADGAONKAR, A.S. (Govt. College of Engg. and Tech., Raipur, M.P.).
Proc. of the National Solar Energy Convention of Solar Energy Society of India. Calcutta.1976.166-7.

<u>085.</u> TESTING OF SOLAR ENERGY FLAT PLATE COLLECTORS.

BHIDE, V.G. and others. (National Physical Laboratory, New Delhi 110 012). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2, 992.

086. THERMAL PERFORMANCE EVALUATION OF A FLAT PLATE CYLINDRICAL PARABOLIC CONCENTRATOR AND A FLAT PLATE COLLECTOR.

SiNGH, Padam. (Development Engg., Jyoti Ltd., Baroda). Proc. of Solar Energy Society of Canada Conf. London, Ontario. 1978. OB7. THERMAL PERFORMANCE TESTING OF SOLAR AIR HEATERS.

REDDY, T.A. and others (Tata Energy Res. Institute, Field Res. Unit, Pondicherry 605 002).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.6—11.

OBB. TRANSIENT PLATE TEMPERATURE IN FLAT

NAYAK, J.K. (Physics Dept., Indian Institute of Technology, New Delhi 110 029) and others Revue Internationale D'Heliotechnique, 1 Semestre; 1979; 8-10.

089. TRANSIENT RISE OF PLATE TEMPERATURE IN SOLAR COLLECTORS.

SODHA, M.S. (Physics Dept. and Centre of Energy Studies, Indian Institute of Technology, New Delhi 110 029) and others. Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnager. Dec 1978. 84-7.

090. TWO-DIMENSIONAL ANALYSIS OF A FLAT PLATE SOLAR COLLECTOR.

RAO, PRABHAKAR, P. and others. J. of Energy.1.5; Sept-Oct 1977;324-8.

#### 2.2 SOLAR PONDS

091. EXPERIMENTAL INVESTIGATION ON. LABORATURY SOLAR PONDS.

GUPTA, C.L. and PATEL, Satish. (Tata Energy Res. Institute, Field Res. Unit, Pondicherry 605 002). Proc. National Solar Energy Convention of Solar Energy Society of India. Bombay. Dec.1979.119-25.

## 2.2 SOLAR PONDS (contd.)

D92. PERFORMANCE OF A SHALLOW SOLAR POND WATER HEATER.

SODHA, M.S. and others. (Centre of Energy Studies, Indian Institute of Technology, New Delhi 100 029).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.148-52.

093. SOLAR PONDS FOR POWER PRODUCTION.

DIXIT, D.K. and SHIWALKAR, B.D. (Dept. of Mech. Engg., Visvesvaraya Regional College of Engg., Nagpur 440 011). Proc. National Solar Energy Convention of Solar Energy Scoeity of India. Calcutta.1976.232-5.

094. SOLAR PONDS - PROSPECTS AND PROBLEMS.

DIXIT, D.K. and SHIWALKAR, B.D. (Dept. of Mech. Engg., Visvesvaraya Regional College of Engg., Nagpur 440 011). Proc. National Solar Energy Convention of Solar Energy Society of India. Bhavnagar. Dec 1978.203-8.

095. SOME STUDIES ON AN EXPERIMENTAL SOLAR POND.

DIXIT, D.K. and others (Visvesvaraya Regional College of Engineering, Nagpur 440 011).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2, 1073-7.

#### 2.3 CONCENTRATING COLLECTURS

O96. ANALYSIS OF OVEN TYPE OF CONICAL CONCENTRATORS.

MANNAN, K.D. (Dept. of Mech. Engg., Punja Agril. Univ., Ludhiana). Proc. of 7th meeting of All India Solar Energy Working Group and conf. on utilization of Solar Energy. Ludhiana. Nov. 1975.88-92.

097. ANALYSIS OF STATIONARY CONCENTRATORS

CHEEMA, L.S. and MANNAN, K.D. (Mech. Engg. Dept., College of Agril. Engg., Punjab Agril Univ., Ludhiana).

Proc. of the 7th meeting of All India Solar Energy Working Group and conf. on utilization of Solar Energy.Ludhiana.Nov.1 83-7.

098. APPLICATION OF QUASI-FIXED ARRAYS OF ADJUSTABLE FOCUS REFLECTORS IN SOLAR COLLECTORS.

SINGH, R. (Chemical Engg. Dept.) and SAGHAL, P.N. (Centre of Energy Studies, Indian Institute of Technology, New Delhi-110 029).

Sun mankind's future source of energy:Proc of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2,1233-4.

099. ASSEMBLY AND ALIGNMENT ERRORS OF A CPT.

SINGH, R.N. (Dept. of Physics, Indian Institute of Technology, Hauz Khas, New Delhi 110 029) and others. Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec.1979.99-103.

100. CLOCKWORK DRIVEN ONE AXIS TRACKING SYSTEM.

GUPTA, K.C. and others (Birla Institute of Tech. and Sc., Pilani, Rajasthan 333 03 Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec.1979.114-7.

#### 2.3 CONCENTRATING COLLECTORS (contd.)

101. COMPARATIVE PERFORMANCE OF TRACKING: TYPE AND NON-TRACKING TYPE SOLAR COLLECTORS.

PAHOJA, M.H. and NANDA, Santosh K. (Indian Institute of Technology, New Delhi 110 029). Sun mankind's future source of energy:Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2, 1316-20.

102. COMPOUND-WEDGE CYLINDRICAL STATIONARY CONCENTRATOR.

MANNAN, K.D. <u>and</u> CHEEMA, L.S. (Dept. of Mech. Engg., College of Agril. Engg., Punjab Agril. Univ., Ludhiana). Solar Energy.19,6;1977;751-4.

103. CONCENTRATORS FOR SOLAR ENERGY
UTILIZATION.

SWARUP, G. and BALASUBRAMANIAN, V.
(Radio Astronomy Centre, Tata Institute
of Fundamental Res., P.O. Box 8,
Octacamund 643 001).
Proc. National Solar Energy Convention
1979: of Solar Energy Society of India.
Bombay, Dec.1979. I-1 - I-9.

104. CONDITION FOR NO SHADOW, AND EFFECTIVE SHADOW DUE TO PLANE REFLECTORS.

AGA, S.L. (Central Salt and Marine themicals Res. Institute, Gujarat) and UPTA, C.P. (Dept. of Mech. Engg., Univ. of Corkee, Roorkee).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutte.1976. 199—201.

OS. CYLINDRICAL LIQUID LENS AS A SOLAR STRIP CONCENTRATOR.

HAUHAN, Rajinder Singh. (Mech. Engg. Dept., unjab Agril. Univ., Ludhiana 141 004). roc. of the Southeast Conf. on Applicationa f Solar Energy, Baton Rouge. April 1976; 109-14. 106. DESIGN, CONSTRUCTION AND PERFORMANCE OF FRESNEL LENS FOR SOLAR ENERGY COLLECTION

GARG, H.P. (Central Arid Zone Res. Institute, Jodhpur) and others.
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2,1328-35.

107. DESIGN CRITERIA AND THERMAL PERFORMANCE OF CYLINDRICAL PARABOLIC SOLAR COLLECTORS.

BHIDE, V. G. and others. (National Physical Laboratory, New Delhi). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec. 1979.89-93.

108. DESIGN, FABRICATION AND TESTING OF A STATIONARY CONCENTRATOR. (M. TECH THESIS)

GIRJAKHIA, G.S. Indian Institute of Technology, Kanpur.1976.

109. DESIGN, FABRICATION AND TESTING OF THREE METER DIAMETER PARABOLIC DISH HELIOSTAT SYSTEM.

ENGIRA, R. M. (Instrumentation Cell) and MANNAN, K.D. (Dept. of Mech. Engg., Punjab Agril. Univ., Ludhiana, Punjab). Sun mankind's future source of energy:Proc. of Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2.1278-81.

110. DESIGN OF A NON-TRACKING CONCENTRATOR WHICH WILL DISTRIBUTE SUNLIGHT IN A UNIFORM MANNER OVER A FLAT RECEIVING SURFACE.

GUPTA, Aparna and others (Birla Institute of Tech and Sc., Pilani, 333 031.). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta., 1976.66-7.

## 2.3 CONCENTRATING COLLECTORS (contd.)

111. DESIGN OF NONTRACKING CONCENTRATOR CAPABLE OF AVOIDING SHADOW ON THE ABSORBER PLATE.

GUPTA, A. and KUMAR, S. (Birla Institute of Tech. & Sc., Pilani 333 031)

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec. 1978. 127-30.

112. DESIGN OF A NON-TRACKING SOLAR HEAT CONCENTRATOR COLLECTOR SYSTEM.

AGARWALA, A. and TEWARY, V.K. (Physics Group, Birla Institute of Tech and Sc., Pilani 333 031.) Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.64-5.

113. DESIGN OF SOLAR ENERGY CONCENTRATORS
FOR POWER GENERATION IN RESIDENTIAL
AND NON-RESIDENTIAL AREAS.

IBRAMSHA, M. (Computer Tech. group, Dept. of Elec. Engg., Indian Institute of Technology, New Delhi 110 029). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.3, 1353-56.

114. DEVELOPMENT OF NONTRACKING CONCENTRATOR FOR USE WITH SOLAR CELLS.

GUPFA, A. and others (Birla Institute of Tech. and Sc., Pilani 333 031.)

Proc. of 7th meeting of All India Solar Energy Working group and conf. on utilization of Solar Energy, Ludhiana. Nov.1975.46-49.

115. EFFECT OF SOLAR GEOMETRY AND ORIENTATION ON TRACKING AND ENERGY INTERCEPTION.

SINGH, Parampal and CHEEMA, L.S. (Mech. Engg., Dept., College of Agril. Engg., Punjab Agril. Univ., Ludhiana).

Proc. of 7th meeting of all India Solar Energy Working group and conf. on utilization of Solar Energy. Ludhiana.

Nov. 1975.68-72.

116. ELECTRONIC DEVICE FOR INTERMITTENT TRACKING.

EAPEN, John T. (Dept. of Zoology, Institute of Science, Bombay 400 032).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar.

Dec 1978.623-8.

117. ENHANCEMENT OF THE CPT CONCENTRATION WITH A CPC.

SINGH, R.N. (Dept. of Physics, Indian Institute of Technology, Hauz Khas, New Delhi 110 029) and others. Proc. Mational Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec. 1979. 94-8.

118. EXPERIMENTAL AND THEORETICAL INVESTIGATIONS OF AN EAST-WEST ORIENTE PARABOLIC CONCENTRATOR.

SAMUEL, Anand A. and others (Solar Energy Div., Energy Res. Centre, Indian Institute of Technology, Madras 600 036).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar.
Dec. 1978.131-6.

119. EXPERIMENTAL INVESTIGATION OF CIRCULAR CYLINDERICAL SOLAR HEAT COLLECTOR OF STATIONARY TYPE.

SINGH, Kamaljit and MANNAN, K.D. (Mech. Engg. Dept., Punjab Agril. Univ., Ludhiana). Proc. National Solar Energy Convention,: of Solar Energy Society of India. Celcutta. 1976.193-5.

120. EXPERIMENTAL INVESTIGATION OF COMPARATIVE PERFORMANCE OF A HEADER TYPE CPC AND FPC.

KRISHNA RAO, K.and others. Int. Symposium-workshop on Solar Energy. Cairo, Egypt. June 1978.

#### .3 CONCENTRATING COLLECTORS ( ontd.)

21. EXPERIMENTAL STUDY OF WATER LENS.

iANDHU, Baljit Singh.and CHAUHAN, Rajinder ingh. (Dept. of Mech. Engg., Punjeb Agril. Iniv., Ludhiana). Proc. of 7th meeting of All India Solar inergy Working Group and conf. on itilization of Solar Energy. Ludhiana. lov. 1975.177-8.

.22. FRESNEL CONDENSERS FOR CYLINDRICAL SOLAR CONCENTRATORS.

'YAGI, R.C. (Centre of Energy Studies, Indian Institute of Technology, New lelhi 110 029).
Proc. National Solar Energy Convention: of iolar Energy Society of India. Bhavnagar. lec 1978.148-52.

THERMAL EFF IC IENC IES OF SOLAR AVITIES HEATED BY PARABOLIC DISHES.

DASGUPTA, Surajit. and others. Proc. of 1978 Annual meeting of American Section of Int. Solar Energy Society. Denver. Aug 1978.840-44.

124. GEOMETRICAL ASPECTS OF A CYLINDRICAL PARABOLIC COLLECTOR.

KANDLIKAR, Satish G. (Dept. of Mech. Engg., Indian Institute of Technology, Bombay 400 076) and VIJ, SANJAY K. (R & D Division, Jyoti Ltd., Baroda 390 003).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2.

125. HIGH TEMPERATURE WATER HEATER USING A NEW STATIONARY CONCENTRATOR.

MANNAN, K.D. and CHEEMA, L.S. (Mech. Engg. Dept., College of Agril. Engg., Punjab Agril. Univ., Ludhiana.). Proc. of 7th meeting of All India Sclar Energy Working Group and conf. on utilization of Solar Energy.Ludhiana. Nov 1975.154-9.

126. INEXPENSIVE WAY OF CONCENTRATING SO ENERGY.

SANDHU, B. S. and CHAUHAN, R.S. (Mech. En Dept., College of Agril. Engg., Punjab Ag Univ., Ludhiana).
Chemical Engineering World.11,5;1976;35-E

127 · INVESTIGATION OF EXPERIMENTAL PERFORMANCE OF A COMPOUND PARABOLIC CONCENTRATOR .

KRISHNA RAO, K. (Regional Res. Lab., Bhuvaneshwar) and others. Proc. National Solar Energy Convention: ( Solar Energy Society of India. Bhavnagar, Dec. 1978.137-41.

128 - NEW LENS-TYPE SOLAR CONCENTRATOR IS

SINGH, Mangel and SALARIYA, K. S. (Coller of Agril. Engg., Punjab Agril. Univ., Ludhiana).
Invention Intelligence.12,3; March 1977; 189-90.

129. NEW LOOK AT CONCENTRATORS FOR SOLA

BHAVE, S.S. and others. (Tata Institute of Fundamental Res., Bombay 400 005.). Proc. of 7th meeting of All India Solar Energy Working Group and conf. on utilization of Solar Energy. Ludhiana. Nov.1975.80-2.

130. NON-TRACKING HEAT CONCENTRATOR
CAPABLE OF GIVING CONCENTRATION
FACTOR OF THE ORDER OF 20.

MURL IDHAR and others (Physics Dept., Birla Institute of Tach. and Sc., Pilani 333 031). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.62-63.

## 2.3 CONCENTRATING COLLECTORS (contd.)

131. NOTE ON PERFORMANCE OF SOLAR CONCENTRATURS.

SODHA, M.S. and others (Electrophysics Group, Indian Institute of Technology, New Delhi 110 029).

J. of Physics Education IV,4; March 1977; 11-15.

132. NOVEL STEP-REFLECTOR FOR SOLAR CONCENTRATION.

GARG, H.P. (Central Arid Zone Res. Institute, Jodhpur). Invention Intelligence .11,1; Jan 1976. 31-33.

133. NON-TRACKING SOLAR SOLAR CONCENTRATION FOR SOLAR CELL.

SINGAL, C.M. and SHIL, S.K. (Central Electronics Ltd., Sahibabad, U.P.)
Proc. National Solar Energy Convention:
of Solar Energy Society of India.
Calcutta.1976.58-61.

134. OPTIMIZATION OF CIRCULAR
CYLINDRICAL SOLAR HEAT COLLECTOR
OF STATIONARY TYPE (M. TECH THESIS.)

SINGH, Kamaljit. Punjab Agril. Univ., Ludhiana. 1976.

135. PERFORMANCE AND OPTIMIZATION OF A CYLINDRICAL PARABOLA COLLECTOR.

SINGH, Parampal and CHEEMA, L.S. (Dept. of Mech. Engg., Punjab Agril. Univ., Ludhiana, Punjab).
Solar Energy.18,2;1976;135-141.

136. PERFORMANCE OF A SEASONALLY ADJUSTED CONCENTRATOR WITH MOD IF IED ABSORBER.

MULLICK, S.C. and NANDA, S.K. (Mech. Engg. Dept., Indian Institute of Technology New Delhi 110029).

Proc. National Solar Energy Conventions of Solar Energy Society of India. Bombay.
Dec.1979.104-9.

PERFORMANCE OF A SELF-TRACKING PARABOLIC CYLINDRICAL COLLECTOR AND WINSTON COLLECTOR.

MYLES, A.S. (Indian Institute of Technology, New Delhi 110 029) and PAHOJA, M.H. (AFPRO Projects, Manipur). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.62.

138. PERFORMANCE OF OPTIMAL GEOMETRY THREE STEP COMPOUND WEDGE STATIONARY CONCENTRATOR.

MANNAN, K.D. (Dept. of Mech. Engg., Punjab Agril. Univ., Ludhiana, Punjab). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2,1218-22.

139. PERFORMANCE OF PLASTIC MOULDED FRESNEL LENSES AS SOLAR ENERGY COLLECTORS.

BASU, S.P. (Dept. of Applied Physics, Calcutta Univ., 92, Acharya Prafulla Chandra Road, Calcutta - 9).

Proc. of 7th meeting of All India Solar Energy Working Group and conf. on utilization of Solar Energy. Ludhians.

Nov.1975. 103-5.

140. PERFORMANCE OF SOLAR CONCENTRATORS:
A THEORETICAL STUDY.

SODHA, M.S. and others (Dept. of Physics, Indian Institute of Technology, New Delhi-110 029).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2, 1309-15.

141. PERFORMANCE OF SOLID COMPOUND PARABOLIC CONCENTRATORS IN SERIES.

KUMAR, Ravindra and others (Mech. Engg. Dept., Motilal Nehru Regional Engg. College, Allahabad 211 004).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec. 1978.142-7.

#### INCENTRATING COLLECTORS (contd.)

142. PERFORMANCE STUDIES ON UNIFORM ILLUMINATION TYPE NON TRACKING CONCENTRATORS.

GUPTA, A. (Birla Institute of Tech and Sc., Pilani 333 031).
Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978. 462-6.

143. RECEIVER DESIGNS FOR TOWER-TOP SOLAR COLLECTOR.

ANSARI, J.S. (Dept. of Mech. Engg., Osmania Univ., Hyderabad) and KRISHNAPRASAD, K. (Dept. of Mech. Engg., Indian Institute of Science, Bangalore).
Sun mankind's future source of energy:Proc of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2,1296-8.

144. SEASONALLY ADJUSTED CONCENTRATING COLLECTOR MADE OF MIRROR STRIPS.

MULLICK, S.C. and NANDA, S.K. (Mech. Engg. Dept., Indian Institute of Technology, New Delhi 110 029).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar.
Dec 1978.153-8.

145. SIMPLE AUTOMATIC TRACKING DEVICE FOR THE "SUN BASKET".

VON OPPEN, M. (Int. Crop Res. Institute for Semi-Arid Tropics, Hyderabad).
Invention Intelligence.13,6;June 1978;228-31.

146. SIMPLE PLATE CLUTCH FOR SOLAR CONCENTRATORS.

THOMAS, A. and others. (Central Instrumentation Service Lab., Indian Institute of Science, Bangalore 560 012).

J. Ind. Inst. Sc. Sect. A. 60,5;1978;267-9.

147. SIMPLE SOLAR TRACKING SYSTEM.

GUPTA, K.C. and others (Mech. Engg. Deut., Birla Institute of Tech. and Sc., Pilani, Rajasthan 333 031). Sun mankind's future source of energy: Prot of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2.1336-40.

148 SIMPLE TECHNIQUE OF FABRICATION OF PARABOLO IDAL CONCENTRATORS.

SRINIVASAN, M. and others (Neutron Physics, Section, Bhabha Atomic Research Centre, Trombay, Bombay 400 085).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976. 173-6. Also published in Solar Energy.22,5;1979;463-465.

149. SOLAR CONCENTRATOR WITH POLYESTER FILM FOR REFLECTING SURFACE AND PENDULUM ARRANGEMENT FOR TRACKING MOVEMENT.

MARATHE, C.R. (Dept. of Mathematics, Indian Institute of Technology, Powei, Bombay 400 076).

Proc. National Solar Energy Convention of Solar Energy Society of India. Bhavnagar.
Dec. 1978.638-43.

150. SOLAR CONCENTRATORS.

SALARIYA, K.S. (Dept. of Mech. Engg., Punja Agril. Univ., Ludhiana). and SINGH, Mangal (Dept. of Extension Education, Punjab Agril. Univ., Ludhiana 1/1 004)
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2,1322-7.

151. SOLAR ENERGY CONCENTRATION WITH LIQUID LENSES.

CHAUHAN, Rejinder Singh (Mech. Engg. Dept., Punjab Agril. Univ., Ludhiana). Solar Energy.18,6;1976;587-589.

#### 7.3 CONCENTRATING COLLECTORS (contd.)

152. SOLAR ENERGY CONCENTRATOR - A NEW DESIGN.

THIRUNAVUKKARASU, V. (I.I.E.T. Kodambakkam, Madras 600 024).
Invention Intelligence.14.11;Nov 1979;464-5.

153. SOME PROBLEMS IN THE FABRICATION OF FRESNEL LENSES.

PARDHASARADHI, T.V. and RAMAKRISHNA RAD, M. (Central Instruments and Services Laboratory, Indian Institute of Science, Bangalore 12). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.465-9.

154. THERMAL PERFORMANCE OF CYLINDRICAL PARABOLIC CONCENTRATORS.

EUPTA, R.K. and others (Energy Division, Jyoti Ltd., Tandalja, Baroda). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec. 1979.83-8.

155. TWO DIMENSIONAL COMPOSITE SOLAR CONCENTRATURS.

SINCH, R.N. (Dept. of Physics, Indian Institute of Technology, New Delhi) and others. Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar Dec. 1978.123-6.

156. USING A FIN WITH A PARABOLIC CONCENTRATOR.

SINGH, R.N. and others(Physics Dept. and Centre of Energy Studies, Indian Institute of Technology, New Delhi 110 029).

Int. J. of Energy Research.3,4; Oct-Dec 1979; 393-395.

157. WATER LENS: AN EFFICIENT SOLAR ENERGY

SANDHU, B.S. (Mech. Engg. Dept., Punjab Agril. Univ., Ludhiana — 141 004). Invention Intelligence.10,11; Nov 1975; 432-434.

158. WIND LOADS ON PARA-CYLINDRICAL SOLAR CONCENTRATORS.

THOMAS, A. (Central Instruments and Service: Laboratory, Indian Institute of Science, Bangalore 560 012).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay-Dec. 1979. 110-3.

#### 2.4 SOLAR FURNACES

159. POTENTIAL APPLICATIONS OF SOLAR FURNACES IN MATERIALS INDUSTRY.

SURESH, D. (Dept. of Mech. Engg., Indian Institute of Science, Bangalore 560 012) and others. II Int. Solar Forum. Hamburg, 1978.

160. USE OF SOLAR FURNACES FOR MATERIALS RESEARCH.

SURESH, D. (Dept. of Mech. Engg., Indian Institute of Science, Bangalore 560 01; Int. Symposium Workshop on Solar Energy. Cairo. 1978.

161. USES OF SOLAR FURNACES IN FOUNDARIES.

SURESH, D. and others (Dept. of Mech. Engg., Indian Institute of Science, Bangalore-560 012).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnegar. Dec. 1978.413-9.

#### 2.5 SELECTIVE SURFACES

162. ABSORPTANCE AND EMITTANCE MEASUREMENT ON SELECTIVE BLACK CHROME SURFACES.

PRASAD, G.S.S.(Dept. of Physics, Central Instruments and Services Laboratory, Indian Institute of Science, Bangalore 560 012). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.78-82.

163. ABSORPTANCE AND EMITTANCE MEASUREMENTS
ON AlPbs and Zn Dust selective surfaces.

GUPTA, B.K. and others (Centre of Energy Studies and Physics Dept., Indian Institute of Technology, Hauz Khas, New Delhi 110 029). 1979 Int. Congress joing meeting with American Section of Int. Solar Energy Society. Atlanta, Georgia.1979.

164. BLACK NICKEL AND BLACK CHROMIUM COATINGS APPLICATIONS AND DEPOSIT CHARACTERISTICS OF NEW PLATING PROCESS.

RAJAM, K.S. and others.(Materials Sc. Div., National Aeronautical Lab., Bangalore 560 017).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.114-8.

165. DEVELOPMENT OF SELECTIVE COATINGS FOR SOLAR PHOTOTHERMAL ABSORBER: ELECTRO-DEPOSITED BLACK NICKEL.

CHHABRA, A.K. and others (Desalination and Effluent Engg. Div., Bhabha Atomic Res. Centre, Trombay, Bombay).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.73-7.

166. DEVELOPMENT OF SELECTIVE SOLAR SURFACES.

CHANDRA, Ashok and PURI, J.S. (Central Building Res. Institute, Roorkee).

Proc. National Solar Energy Convention:
of Solar Energy Society of India.
Calcutta.1976.188-9.

167. EMISSIVITY MEASUREMENTS ON SOLAR SELECTIVE COATINGS USING GOLAY INFRARED RADIATION DETECTOR.

GUPTA, B.K. and others (Centre of Energy Studies, Indian Institute of Tochnology, New Delhi 110 029). Technical Report:TR-CES-S-9. 1978.

#68. EXPERIMENTAL STUDIES OF SELECTIVE COATINGS FOR SOLAR ENERGY COLLECTORS.

SINGH, Kamaljit and MANNAN, K.D. (Dapt. of Mech. Engg., Punjab Agril. Univ., Ludhiana).
Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.186-7.

169. HIGH ABSORPT IVITY A1-Pbs SELECTIVE SURFACES FOR SOLAR PHOTOTHERMAL CONVERSION.

GUPTA, B.K. and others (Centre of Energy Studies and Dept. of Physics, Indian Institute of Technology, New Delhi 110 029) Solar Energy Meterials. 1,5-6; June-Aug 1979;481-7.

170. NEW APPROACH TO LOW COST LARGE AREA SELECTIVE SURFACES FOR PHOTOTHERMAL CONVERSION.

GUPTA, B.K. and others (Physics Dept. and Centre of Energy Studies, Indian Institute of Technology, New Delhi 110 029). Int. J. of Energy Research.3,4; Oct-Dec 1979;371-7.

171. NEW PROCESSES FOR BLACK COATINGS
USEFUL IN HARNESSING SOLAR ENERGY.
I—A ROOM TEMPERATURE BLACK CHROMIUM
PLATING BATH.

RAJAGOPALAN, Indira and others (Materials Sc. Div., National Aeronautical Lab., Bangalors 560 017).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2. 855-8.

#### 2.5 SELECTIVE SURFACES (contd.)

OPTICAL AND ELECTRICAL INVESTIGATIONS
OF ANNEALED INDIUM OXIDE SELECTIVE
COATINGS PRODUCED BY SPRAY PYROLYSIS.

SHARMA, A.K. and others. (Centre of Energy Studies and Materials Res. Lab., Dept. of Physics, Indian Institute of Technology, New Delhi 110 029).

Proc. National Solar Energy Convention: of Solar Energy Society of India.
Bhavnagar. Dec 1978.119-21.

173. OXIDES OF COPPER AND STAINLESS STEEL AS SELECTIVE ABSORBERS.

GOGNA, P.K. and CHOPRA, K.L. (Dept. of Physics, Indian Institute of Technology, New Delhi 110 029.).

Proc. National Solar Energy Convention: of Solar Energy Society of India.

Bombay. Dec.1979.68-72.

174. PREPARATION AND PROPERTIES OF PURE AND TIN DOPED INDIUM OXIDE SELECTIVE COATINGS.

GUPTA, 8.K. and others. (Center of Energy Studies and Physics Dept., Indian Institute of Technology, New Delhi).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi. Jan 1978. Vol.2,865-9.

175. SEAM: SOLAR ENERGY ABSORBING MATERIALS.

NATARAJAN, A. and others (Vikram Sarabhai Space Centre, Indian Space Res. Organisation, Trivandrum). Proc. of 7th meeting of All India Solar Energy Working Group and Conf. on utilization of Solar Energy.Ludhiana. Nov.1975.129-31.

176. SELECTIVE COATINGS FOR SOLAR ENERGY CONVERSION.

GOGNA, P.K. and others. (Dept. of Physics, Indian Institute of Technology, New Delhi 110 029.)
Sun mankind's future source of energy:Proc of the Int. Solar Energy Society Congress, New Delhi. Jan 1978. Vol.2.842-4.

177. SELECTIVE COATINGS FOR WATER HEATERS

CHANDRA, Ashok .(Monitoring Station, Ministry of Communications, P.O. Betim, Goa).
Sunworld.3,4;1979;106-7.

178. SELECTIVE RADIATION PROPERTIES OF INDIA PLASTICS FOR SOLAR HEATING AND NATURAL COOLING OF WATER.

GUPTA, J.P. and RAO, M.V.N. (Defence Lab., Jodhpur).
Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.613-5.

179. SOLAR ABSORPTANCE PROPERTIES OF SOME NONSELECTIVE COATINGS.

RAMAKRISHNARAO, M. (Central Instruments and Services Lab., Indian Institute of Science, Bangalore 560 012.). Current Science. 46,8:1977:255-6

180. SOLAR ABSORPTION SPECTRA OF PbS-A1 AND PbSe-A1 SYSTEMS.

CHANDRA, Ashok. (Monitoring. Station, Ministry of Communications, P.O. Betim, Gos) and other Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec. 1978.607-12.

## 2.5 SELECTIVE SURFACES (contd.)

181. SPECTRAL SELECTIVE PROPERTIES OF BLACK CHROME AND NICKEL ELECTRO - DEPOSITED COATINGS FOR SOLAR ABSORBER.

RAMAKRISHNARAO, M. and others (Indian Institute of Science, Bangalore). Sun mankind's future source of energy: Procof the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2,875-80.

182. STRUCTURED COATINGS FOR SOLAR ENERGY COLLECTORS.

NAGAR, V.K. and others.(Div. of Solar Energy, National Physical Lab., New Delhi-12). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec.1979.62-7.

183. TECHNIQUES OF SELECTED COATINGS.

PILLAI, P.K.C. and SAXENA, P.K. (Solar Energy School, Dept. of Physics, Indian Institute of Technology, New Delhi-110 029). Sun mankind's future source of energy: Procof the Int. Solar Energy Society Congress, New Delhi, Jan 1978 Vol.2, 1085-6.

184. USE OF BLACK IN FREE FORM FOR ABSORPTION OF SOLAR HEAT.

ANAND, Satya Prakash (Chem. Oceanography Div., National Institute of Oceanography, P.O. Dona Paula, Goa 403 004). Int. Solar Energy Symposium on Technical, Economical and organizational aspects. Belgrage. Oct 1978;20,1-5.

#### 3.1 THERMAL STORAGE

185. ANALYSIS OF A THERMAL STORAGE UNIT FOR SOLAR ENERGY.

SRIRAMULU, V and AHMED, Syed Basheer (Solar Energy Div., Dept. of Mech. Engg., Indian Institute of Technology, Madras 600 036). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Vol.1;588.

186. APPLICATION OF BETA ALUMINA SOLID ELECTROLYTE IN ENERGY STORAGE.

JAIN, G.C. and others (Div. of Materials, National Physical Lab., New Delhi 110 012.) Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.126-7.

187. ESTIMATION OF EFFECTIVE THERMAL CONDUCTIVITY COEFFICIENT FOR SENSIBLE THERMAL STORAGE.

CHAURASIA, P.B. Lal. (Central Arid Zone Res. Institute, Jodhpur).
Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay.
Dec 1979.128-32.

188. HEAT TRANSFER CHARACTERISTICS OF WATER FILLED CANS AS SOLAR THERMAL STORAGE MEDIUM: A COMPARATIVE TEST DATA ANALYSIS.

SAHA, H. Proc. of 1978 Annual meeting of American Section of Int. Solar Energy Society. Denver. Aug 1978.664-670.

189. INVESTIGATION ON THE FEASIBILITY OF USING A TWO-PHASE THERMOSYPHON FOR SOLAR STORAGE, SPACE HEATING AND COOLING.

BHATTACHARYA, S.C. (Mech. Engg. Dept., G.B. Pant Univ. of Agril. and Tech., Pantanaga Nainital, U.P.) and KAPUR, V.K. (Kanoria Chem. Pvt. Ltd., Renukoot, U.P.). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Congress, New Delhi, Jan 1978.Vol.1;579. 190. PERFORMANCE OF ROCK PILE STORAGE SYSTEM IN COOLING OF BUILDINGS.

CHANDRA, Prakesh and others (Central Building Res. Institute, Roorkee).

Proc. of 7th meeting of All India Solar Energy Working Group and Conf. on Utilization of Solar Energy. Ludhiana. Nov.1975.124-8

191. REPORT ON THE VARIOUS HEAT COLLECTION AND HEAT STORAGE SYSTEMS EVOLVED UNDER THE SOLAR ENERGY PROGRAMME AT B.I.T.S.

PATEL, J.S. and others (Birla Institute of Tech. and Sc., Pilani, Rajasthan—333 031.)
Sun mankind's future source of energy:Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2,1115—30.

192. REVIEW OF THERMAL STORAGE MATERIALS
FROM THE VIEW POINT OF SOLAR ENERGY
APPLICATION.

PANDE, P.C. and GARG, H.P. (Central Arid Zone Res. Institute, Jodhpur).
Proc. National Solar Energy Convention: of Solar Energy Society of India.
Bhavnagar. Dec 1978.191-202.

193. STORAGE OF SOLAR HEAT BY SOLID-LIQUID PHASE CHANGE.

SEENIRAJ, V. (Dept. of Mech. Engg., Govt. College of Tech., Coimbatore 641 013). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.186-90.

194. STUDY FOR OPTIMUM USE OF METALLIC PLATES FOR THERMAL STORAGE IN SOLAR PROCESSES.

PRASADA RAD, C.V.(VRDE, Ministry of Defence, Avadi, Madras-54) and SASTRI, V.M.K. (Dept. of Mech. Engg., Indian Institute of Technology, Madras-36). Sun mankind's future source of energy:Proc. of the Int. Soler Energy Society Congress, New Delhi, Jan 1978. Vol. 1, 583. 195. TECHNOLOGIES FOR SOLAR ENERGY STORA

SHARMA, S.K. (Dept. of Chem. Engg. & Tech. Punjab Univ., Chandigarh 160 014). 19. Mimeograph.

196. TEMPERATURE DISTRIBUTION IN AN UNDERGROUND STORAGE TANK.

NAYAK, J.K. and others (Centre of Energy Studies and Physics Dept., Indian Instita of Technology, New Delhi 110 029). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.219-26.

## 3.2 REFRIGERATION AND AIRCONDITIONING

197. ANALYSIS AND PERFORMANCE OF AN AMMONIA-WATER INTERMITTENT SOLAR REFRIGERATOR.

VENKATESH, A. and GUPTA, M.C. (Solar Energy Div., Energy Res. Centre, Indian Institute of Technology, Madras 600 036). Sun mankind's future source of energy:Proc of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.3:2095-8.

198. ANALYSIS OF A SOLAR REGENERATOR.

GANDHIDASAN, P. and others (Solar Energy Div., Indian Institute of Technology, Madras 600 036). Sun mankind's future source of energy:Proc of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.3;1567-71.

199. ANALYSIS OF A TWO STAGE CASCADED CONTINUOUS AMMONIA WATER SOLAR REFRIGERATION SYSTEM.

SOMASUNDARAM, B.and others (Dept. of Heat Power Engg., College of Engg., Perarigner Anna Univ. of Tech., Madras 600 025). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.198-202.

#### 3.2 REFRIGERATION AND AIRCONDITIONING (contd.)

200. BUOYANCY EFFECTS IN A SOLAR REGENERATOR.

GANDH IDASAN, P. and others. (Solar Energy Div. of Energy Res. Centre, Indian Institute of Technology, Madras 600 036.). Solar Energy. 22,1;1979;9-14.

201. DESIGN ANALYSIS AND PERFORMANCE OF A SOLAR EVAPORATOR FOR ICE MAKING.

ARORA, C.P. Proc. Int. Solar Energy Congress and Exposition, Los Angeles, California.1975.

202. DESIGN AND FABRICATION OF A SOLAR ICE MAKING MACHINE.

CHANDRA, Ramesh (Mech. Engg. Dept., Indian Institute of Technology, New Delhi 110 029) and others.

Sun mankind's future source of energy:Proc. of the Int. Soler Energy Society Congress, New Delhi, Jan 1978.Vol. 3,1979-82.

203. DESIGN CONSIDERATIONS OF SOLAR/WASTE HEAT OPERATED SINGLE STAGE ABSORPTION REFRIGERATION SYSTEM FOR OBSTAINING FOOD FREEZING TEMPERATURES.

SARATHBABU, N. (Central Mech. Engg. Res. Institute, Durgapur - 713 209)
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.3:2107-8.

204. DESIGN OF A SOLAR ENERGY OPERATED LITHIUM—BROWIDE WATER ABSORPTION REFRIGERATION SYSTEM FOR REFRIGERATION STORAGE.

GHOSH, S.B. and others (Indian Institute of Technology, Kharagpur).
Sun mankind's future source of energy:Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.3;1997-2001.

1

205. DESIGN OF 1-TON SOLAR OPERATED LIBR-WATER AIRCONDITIONING SYSTEM WITH SPECIAL REFERENCE TO SOLAR PART.

VARMA, H.K. (Mech. and Industrial Engg. Dept., Univ. of Roorkes, Roorkes, U.P.) Proc. National Solar Energy Conventions of Solar Energy Society of India. Bhavnagar. Dec.1978.325-30.

206. DEVELOPMENT AND TESTING OF AN AMMONIA-WATER ABSORPTION REFRIGERATION SYSTEM FOR A COLD STORAGE UNIT USING SOLAR ENERGY.

SUKHATME, S.F. and others (Dept. of Mech. Engq., Indian Institute of Technology, Bombay).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay.
Dec.1979.193-7.

207. EFFECT OF PLATE TEMPERATURE ON THE TRANSIENT RESPONSE OF SOLAR REGENERATOR.

KUMAR, J. and SRIRAMULU, V. (Dept. of Mech. Engg., Indian Institute of Technology, Madras 600 036).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay.
Dec.1979.476-81.

208. EXPERIMENTAL AND THEORETICAL STUDY OF A NATURAL WATER COOLER.

KISHORE, V.V.N. and others (Dept. of Chem. Engg., Indian Institute of Technology, Kanpur 208 016).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay.
Dec. 1979.482-8.

209. EXPERIMENTAL INVESTIGATIONS OF AN INTERMITTENT AMMONIA-WATER SOLAR REFRIGERATOR.

VENKATESH, A. and GUPTA, M.C. (Solar Energy Div., Energy Res. Center, Indian Institute Technology, Madras 600 036).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar.

Dec 1978.675-84.

#### 3.2 REFRIGERATION AND AIRCONDITIONING (contd.)

210. LAMINAR FORCED CONVECTION AIR FLOW
IN THE COLLECTOR CUM REGENERATOR USED
IN SUN POWERED AIRCONDITIONER.

CANDHIDASAN, P. and GUPTA, M.C. (Solar Energy Lab., Indian Institute of Tachnology, Madras.)
Proc. of 7th meeting of All India Solar Energy Working Group and conf. on utilization of Solar Energy. Ludhiana. Nov 1975. 115-8.

211. NEW METHOD OF SUN POWERED AIRCONDITIONING.

GANDH IDASAN, P. and GUPTA, M.C. (Solar Energy Lab., Indian Institute of Technology, Madras 600 036). Int. Institute of Refrigeration. Australian National Committee Joint meeting of Commissions C2,01,02,03 and £1. Melbourne. Sept.6-10,1976.

212. OPEN CYCLE 3-TON SOLAR AIR
CONDITIONER : CONCEPT, DESIGN AND
CYCLE ANALYSIS.

GUPTA, M.C. and GANDHIDASAN, P. (Solar Energy Div., Indian Institute of Technology, Madras 600 036).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.3;1991-6.

213. PERFORMANCE CHARACTERISTICS OF SOLAR REGENERATORS.

GANDHIDASAN, P. and others (Solar Energy Div., Energy Res. Centre, Indian Institute of Technology, Madras 600 036.)

Proc. National Solar Energy Convention: of Solar Energy Society of India.

Bhavnegar. Dec. 1978.685-90.

214. PERFORMANCE OF AN INTERMITTENT
REFRIGERATION SYSTEM USING MODIFIED
WINSTON COLLECTOR.

Agril. Univ., Ludhiana, Punjab) and CHEEMA L.S. (L.E.S., UFPB,58.000 - Joao Pessoa-Pb, Brazil). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.216-8.

DHILLDN, G.S. (Dept. of Mech. Engg., Punjal

Also, pubd in Proc. of the Southeast Conf. on Applications of Solar Energy, Baton Roug April 1976.302-8.

215. PERFORMANCE PREDICTION OF A SOLAR— OPERATED INTERMITTENT AMMONIA—WATER REFRIGERATOR USING A FLAT PLATE COLLECTOR.

VENKATESH, A. and GUPTA, M.C. Proc. of 1978 Annual meeting of American Section of Int. Solar Energy Society. Denver. Aug 1978.777-781.

216. PERFORMANCE STUDY OF COLD BOX BASED ON NATURAL COOLING.

GUPTA, J.P. and others (Defence Lab., Jodhpur). Sun mankind's future source of energy:Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2,2002-7.

217. PROBABILITY-BASED OPTIMUM DESIGN OF REFRIGERATED WAREHOUSES.

GUPTA, 8.D. and RAO, S.S. Building and Environment.13.3:1978:153-60.

218. RATE OF DESORPTION IN A SOLAR REGENERATOR.

GANDHIDASAN, Reand others (Solar Energy Div., Dept. of Mech. Engg., Indian Institute of Technology, Madras 600 036). 4th National Heat and Mass Transfer Conf. Roorkee. Nov 1977.837-44.

## .2 REFRIGERATION AND AIRCONDITIONING (contd.)

RATE OF MASS TRANSFER IN A SOLAR REGENERATOR.

iANDHIDASAN, P. and others (Dept. of Mech. Engg., Indian Institute of Technology, Madras).
Letters in Heat and Mass Transfer.4,3;1977;

REPORT ON THE UTILIZATION OF SOLAR ENERGY FOR REFRIGERATION AND AIR CONDITIONING APPLICATIONS.

KAPUR, J. C. (Air Conditioning Corporation Pvt. Ltd., Calcutta). pp.(1976).

221. SOLAR AIR CONDITIONING.

QUPTA, M.C. (Indian Institute of Technology Madras). German Solar Forum with exhibition. Hamburg, Germany, F.R. Sept 1977.209-16.

222. SOLAR A IRCONDITIONING: REGENERATION OF ABSORBENT SOLUTION. (Ph.D. THESIS).

MULLICK, 5.C.
Indian Institute of Technology, Madras.
1976.

223. SOLAR AMMONIA-WATER ABSORPTION SYSTEM FOR COLD STORAGE APPLICATION.

GIRI, N.K. and BARVE, K.M. (Solar EnergyDiv., Jyoti Ltd., Baroda). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Dalhi, Jan 1978.Vol. 2, 1983-7.

224. SOLAR ICE MACHINE FOR ARID AND SEMI-ARID REGIONS OF INDIA.

GUPTA, T.N.
Pruc. of Int. Solar Energy Congress and
Exposition. Los Angeles. California.1975.

225. SUN POWERED A IRCONDITIONING.

GANDHIDASAN, P. and others (Solar Energy Lab., Indian Institute of Technology, Madras). Proc. of 7th meeting of All India Solar Energy Working Group and Conf. on Utilization of Solar Energy. Ludhiana. Nov.1975.119-23.

226. THEORETICAL AND EXPERIMENTAL INVESTIGATION OF AN INTERMITTENT SOLAR REFRIGERATION.

VENKATESH, A.and others (Solar Energy Div., Energy Res. Centre, Indian Institute of Technology, Madras 600 036).
1979 Int. Congress joint meeting with American Section of Int. Solar Energy Society. Atlanta, Georgia.1979.

227. THEORETICAL STUDY OF A NOCTURNAL RADIATION WATER COOLER.

RAMAKRISHNA,M.(Regional Res. Lab.,
Hyderabad 500 009) and RAO, D.P. (Dapt.
of Chem. Engg., Indian Institute of
Technology, Kanpur 208 016).
Proc. National Solar Energy Convention:
of Solar Energy Society of India. Bhavnagar.
Dec 1978. 311-8.

#### 33 HEAT PIPES, HEAT PUMPS,

228. ANALYSIS AND DEVELOPMENT OF HEAV

GHOSH, S. and GROVER, P.D. (Dept. of Chem. Engg., Indian Institute of Technology, New Delhi 110 029.). Sun mankind's future source of energy:Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2.1196-1200.

#### 3.3 HEAT PIPES, HEAT PUMPS, (Contd.)

229. ANALYSIS OF THE PERFORMANCE OF A

JAYARAMAN, R. (Tamil Nadu Agro Industries Corporation Ltd., Madras 600 032.). Proc. National Solar Energy Conventions of Solar Energy Society of India. Bombay. Dec 1979.203-7.

230. DESIGN AND EVALUATION OF AN INEXPENSIVE HEAT PIPE.

GUPTA, Y.P. and SINGH, Daljit.(Dept. of Mech. Engg., Punjab Agril. Univ., Ludhiana, Punjab). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.164-5.

#### 4 SPACE HEATING AND COOLING.

231. ANALYSIS AND PERFORMANCE OF A SOUTHFACING SOLAR WALL.

TIWARI, G.N. and others (Centre of Energy Studies, Indian Institute of Technology, New Delhi 110 029).
Proc. National Solar Energy Convention: of Solar Energy Society of India.
Bonbay. Dec 1979.175-80.

232. ANALYSIS OF SOLAR SPACE COOLING SYSTEMS SUITABLE FOR TROPICAL CLIMATES.

GUPTA, M.C. and GANDHIDASAN, P. (Solar Energy Lab., Indian Institute of Technology, Madras 600 036). Proc. of the National Solar Energy Conventions of Solar Energy Society of India. Calcutta.1976.214-6. 233. COOLING WITH SOLAR ENERGY. (M.TECH. THESIS).

DHILLON, Gurbas Singh. Punjab Agril. Univ., Ludhiana. 1976.

234. DESIGN AND PERFORMANCE STUDIES ON A SOLAR ROOM HEATER.

GARG, H.P. and others (Central Arid Zone Res. Institute, Jodhpur). Solar Energy.19,2;1977;155-162.

235. DESIGN OF SOLAR HEATING SYSTEM FOR WINTER HEATING OF BUILDINGS — A CASE STUDY.

SAINI, J.S. and others (Mech. and Industri Engg. Dept., Univ. of Roorkee, Roorkee). Sun mankind's future source of energy: Pro of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2,1603-6. Also, pubd. in Climate Control.10,6;1978; 20-1.

236. EXPERIMENTAL EVALUATION OF A SOLAR SPACE HEATING SYSTEM AT ROORKEE.

CHANDRA, M and others (Physics Lab., Centr Building Res. Institute, Roorkee, U.P.) Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.187-92.

237. EXPERIMENTAL INVESTIGATION ON SOLAR HOUSE HEATING IN NORTHERN INDIA.

SINGH, Parampal. (Dept. of Mech. Engg.) and JAZAYERI NASERI, M.A. (College of Agril. Engg., Punjab Agril. Univ., Ludhiana 141 0 Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol. 2, 1686-

238. NOCTURNAL THERMAL ENVIRONMENTAL CONTROL OF HOUSES IN NORTHERN INDIA.

MANNAN, K.D. and others (Dept. of Mech. Engg., Punjab Agril. Univ., Ludhiana, Punjab).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2.

NOCTURNAL COOLING BY RADIATIVE HEAT TRANSFER.

GUPTA, V.K. (Dept. of Physics, J.N. Agricultural Univ., Jabalpur 482 004). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.657-64.

O. ON SOME ASPECTS OF MODELING AND ANALOG SIMULATION OF SOLAR HEATING/ IOLING SYSTEM.

WARI, R.N. and TIWARI, S.N. (Dept. of .ect. Engg., M.N.R. Engg. College, .lahabad 211 004).
oc. National Solar Energy Convention:
'Solar Energy Society of India.
waynagar. Dec 1978.319-24.

11. OVERLAYS FOR SOLAR HEAT GAIN CALCULATION THROUGH FENESTRATION.

IRMA, V.V. and AGARWAL, K.N. lentral Building Res. Institute, workes). Idian Architect. 19,1;1977;7-13.

42. PASSIVE INTEGRATED UNIT FOR THE COLLECTION, THERMAL STORAGE IN USION MATERIALS AND DISTRIBUTION OF DLAR ENERGY FOR HOME HEATING AND OTHER PPLICATIONS.

APUR, Jagdish Chandra (Kapur Solar Farms, ijwasan Najafgarh Road, P.O. Kapes Hera, aw Delhi 110 037). un mankind's future source of energy:Proc. f the Int. Solar Energy Society Congress, aw Delhi, Jan 1978.Vol.1,5—16.

243. PASSIVE SOLAR HEATING AND COOLING FOR POULTRY SHEDS.

GUPTA, C.L. (Tata Energy Res. Institute, Field Res. Unit, Ponoicherry 605 002) and JAUHRI, S.M. (20 Central lane, Babar Road, New Delhi 110 001).
Sun mankind's future source of energy:Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2,1867.

244. PERIODIC HEATING/COOLING BY SOLAR RADIATION.

MATHUR, S.S. and others (Centre of Energy Studies and Physics Dept., Indian Institute of Technology, New Delhi 110 029). Sun mankind's future source of energy:Procof the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2,1662-6.

245. RADIATION HEATING OF FLUID THROUGH TRANSPARENT WALLS.

SODHA, M.S. Proc. Int. Solar Energy Congress and Exposition. Los Angeles. California.1975.

246. REDUCTION OF HEAT FLUX THROUGH A A ROOF BY WATER FILM.

SODHA,M.S. (Indian Institute of Technology, New Delhi 110 029) and others. Solar Energy.20,2;1978;189-91.

247- SINGLE ROOM HEATING BY SOLAR RADIATION.

GUPTA, V.K. and others (J.N. Agril. Univ., Jabalpur 482 004).
Sun mankind's future source of energy:Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2.1629-30.

248. SKY COMPONENT GRIDS FOR GLAZED VERTICAL WINDOWS.

SAXENA, B.K. and BANSAL, G.D. Energy and Buildings.2,1; Jan 1979;45-53.

## 4 SPACE HEATING AND COOLING (contd.)

249. SOLAR ENERGY - AN ALTERNATIVE ENERGY SOURCE FOR RESIDENTIAL BUILDINGS.

SHATTACHARJEE, K.P. J. Indian Institute of Architects. 44,2; 1978,20-1.

250. SOLAR HEAT REDUCTION IN MULTISTOREYED BUILDINGS BY SHADING DEVICES.

RAJENDRA Prakash and SAHU, S. (Mech. and Industrial Engg. Dept., Roorkee Univ., Roorkee 247 672.)
Indian Architect. 19.12:1977:170-5.

251. SOLAR HEATING AND COOLING IN INDIA.

DATTA, R.L. (Central Salt and Marine Chemicals Res. Institute, Bhavnagar). Sun World.1, July 1976;13-14.

252. SOLAR SPACE COOLING.

GUPTA, M.C. (Mech. Engg. Dept., Indian Institute of Technology, Madras 600 036). Energy Management 1,1; Jan-Mar 1977; 39-43.

253. SOLAR SPACE HEATING AND COOLING.

GUPTA, M.C. (Solar Energy Div., Indian Institute of Technology, Madras 600 036). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar.Dec 1978.576-80.

254. SOLAR SPACE HEATING AT HIGH ALTITUDE CONDITIONS.

GUPTA, J.P. and CHOPRA, R.K. (Defence Lab., Jodnpur).
Solar Energy.18,1;1976;51-57.

255. STUDIES ON NATURAL COOLING OF GREE HOUSES.

MANNAN, K.D. and others (Mech. Engg. Dep Punjab Agril. Univ., Ludhiana 141 004). Proc. National Solar Energy Convention; of Solar Energy Society of India. Bhavna Dec 1978.367-71.

256. THERMAL PERFORMANCE OF DOUBLE HOLL WALL/ROOF.

SODHA, M.S. and others (Centre of Energy Studies, Indian Institute of Technology, New Delhi 110 029).
Int. J. of Energy Research.3,4; Oct-Dec 349-356.

257. USE OF SOLAR ENERGY IN RESIDENTIAL BUILDINGS: PROBLEMS AND IMPLICATION OF BUILDING DESIGN IN THE LIGHT OF SOLAR ENERGY COLLECTION.

BHATTACHARJEE, K.P. (Dept. of Architecture, Jadavpur Univ., Calcutta). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.244.

258. UTILIZATION OF HOLLOW SLABS IN HEAT AND COOLING OF BUILDINGS.

KUMAR, Ashvini.and others (Centre of Ener Studies, Indian Institute of Technology, New Delhi 110 029). Proc. National Solar Energy Convention: o Solar Energy Society of India. Bombay. Dec 1979.181-6.

259. YEAR ROUND STUDIES ON NATURAL COOLI AND HEATING OF GREEN HOUSES IN NORTHERN INDIA.

MANNAN, K.D. and CHEEMA, L.S.(Punjab Agril. Univ. Ludhiang 141 004). 1979 Int. Congress joint meeting with the American Section of Int. Solar Energy Society. Atlanta. Georgia.1979.

#### 5 SOLAR THERMAL APPLICATIONS AND DEVICES

260. DAIRYING IN INDIA.

CHANDRAN, T.C. (Kaira District Cooperative Milk Producers' Union Ltd., Anand 388 001, Gujarat).
Sunworld.2,2;May 1978;40-1.

261. FEASIBILITY STUDIES ON UTILIZATION OF SOLAR ENERGY IN DAIRY PROCESSING.

MANOHAR REDDY, J. (Energy Systems Group, Jyoti Ltd., Baroda) and VERMA, R.D. (National Dairy Res. Institute, Karnal). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.331-5.

262. IDENTIFICATION OF SOLAR THERMAL APPLICATIONS IN INDUSTRY.

SHARMA, Jitendra and others. (R & D Centre, Jyoti Ltd., Baroda).

Proc. National Solar Energy Convention:of Solar Energy Society of India. Bhavnagar.

Péc 1978.408-12.

263. INDUSTRIAL APPLICATIONS OF SOLAR ENERGY IN INDIA.

JAIN, B.C. (Jyoti Ltd., Baroda). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.588-94.

264. PASTEURIZATION OF MILK BY SOLAR ENERGY.

PANDEY, M.M. (Central Institute of Agril. Engg., Bhopal, M.P.) and GUPTA, C.P. (Indian Institute of Technology, Kharagpur, W.B.),

Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol. 2. 2167-70.

265. SOLAR BOILER AND ITS APPLICATIONS.

PANDYA, Arvind. 3p. (1975). Mimeograph.

266. SOLAR EGG TESTER.

VENKATARAM, A. (C/o Dr. A. Gopelakrishna Murthy, Mangalagiri, dt. Guntur, A.P.) Invention Intelligence.14.9; Sept 1979:360.

267. SOLAR ENERGY UTILIZATION FOR THE PROCESSING OF HIGH TEMPERATURE MATERIAL

DUTTA, S.K. and others (Materials and Quality Control Div., Vikram Sarabhai Space Centre, Indian Space Res. Organisation, Trivandrum).

Proc. of 7th meeting of All India Solar Energy Working Group and conf. on utilization of Solar Energy. Ludhiana.
Nov.1975.132-6.

268. SOLAR MILK HEATER.

VENUGOPAL, S. (Mech. Engg. Dept., Annamalai Univ., Annamalai Nagar).
Invention Intelligence. 13,3; March 1978; 98-101.

269. SOLAR WAX MELTER.

AGARWAL, R.C. (Dept. of Mech. Engg., Govt. Engg. College, Jabalpur 482 011) and others. Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979- 489-92.

270. STRATEGY FOR THE DEVELOPMENT OF SOME LOW GRADE THERMAL DEVICES.

KEDIA, Y.P. and others (Birla Institute of Technology and Science, Pilani, India), Sun mankind's future source of energy: Proc. of International Solar Energy Society Congress, New Delhi, 1978. Vol.1;279—82.

#### 5 SOLAR THERMAL APPLICATIONS AND DEVICES (contd)

271. UTILIZATION OF SOLAR ENERGY FOR MANUFACTURING CANDLES.

VENUGOPAL, S. (Mech. Engg. Dept., Annamalai Univ., Annamalainagar). Invention Intelligence.11.6;1976;217-9.

272. UTILISATION OF SOLAR ENERGY IN TEXTILE INDUSTRY.

RAO, K.S. and BOKIL, K.K. (Central Salt and Marine Chemicals Res. Institute, Bhavnagar). Proc. of National Solar Energy Convention of Solar Energy Society of India. Bhavnagar. Dec 1978.399-407.

#### 5.1 WATER HEATING

273. AMUL DAIRY'S SOLAR PREHEATER.

CHANDRAN, T.C. Urja.3,1;1978;5-16.

274. CAZRI DEVELOPS SOLAR WATER HEATER-CUM-SOLAR STEAM COOKER.

Invention Intelligence.13,7;July 1978; 260-1.

275. CALCULATION PROCEDURE FOR DETERMINING THE THERMAL PERFORMANCE OF SOLAR DOMESTIC HOT WATER AND SPACE HEATING SYSTEMS.

MUTHUVEERAPPAN, V.R. (Annamalai Univ., Annamalainagar) and others. Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.176-80. 276. DESIGN OF A COMBINED SOLAR WATER
HEATING AND DISTILLATION SYSTEM
FOR RURAL APPLICATIONS.

MITAL, S.C. and others (Birla Institute Tech. and Sc., Pilani 333 031). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2,215:

277. DEVELOPMENT AND TESTING OF AN IMPROVED BUILT-IN STORAGE SOLAR WATER HEATER.

GARC, H.P. (Physicist, Central Arid Zone Res. Institute, Jodhpur) and others. Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.1:566.

278. DYNAMIC RESPONSE OF A NOVEL SOLAR WATER HEATER.

JAIN, A.K. (Dept. of Mech. Engg., Imperial College of Sc. and Tech., London) and SITHARAMA RAD, T.L. (Regional Engg. College Warangal).

Sun mankind's future source of energy:Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2,1616-20.

279. EXPERIENCE WITH SOLAR WATER HEATERS USING COPPER FLAT PLATE COLLECTORS.

DE SARKAR, D. and others (Indian Copper Information Centre, 278, Camac Street, Calcutta 700 016). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.232-6.

280. EXPERIENCES WITH A LARGE SIZE SOLAR HOT WATER SYSTEM.

PANDYA, U.K. and others (Energy Div., Jyoti Ltd., Tandalja, Baroda). National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979. 143-7.

## 5.1 WATER HEATING (contd.)

281. HEAT OPERATED MECHANICAL DEVICE TO CONTROL THE TEMPERATURE AND FLOW OF WATER ENTERING A HOT WATER STORAGE TANK IN A SOLAR WATER HEATING SYSTEM.

KAPUR, Jagdish Chandra. (Kapur Solar farms, Bijwasan Najafgarh Road, P.O. Kapas Hera, New Delhi 110 037). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, ; Delhi, Jan 1978. Vol.2.1612-4.

282. HEAT TRANSFER ANALYSIS OF FLAT PLATE TYPE DOMESTIC SOLAR WATER HEATER.

GUPTA, V.K. and others (J.N. Agril. Univ., Jabalpur 482 004).

Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2.1625-8.

283. HEAT TRANSFER RATES OF A SOLAR WATER HEATER AT VARYING INCLINATIONS UNDER AID ING FLOW CONDITIONS.

STHAPAK, B.K. and others (Dept. of Mech. Engg., Govt. College of Engg. and Tech., Raipur 492 002.).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec.1978.227-31.

284. IMPROVED LOW COST SOLAR WATER HEATER.

GARG, H.P. (Central Arid Zone Res. Institute, Jodhpur).
Research and Industry. 21,3;1976;186-8.

285. INTEGRATION OF SOLAR WATER HEATER WITH BUILDING.

KAILA, S.K. and GARG, N.K. (Central Building Res. Institute, Roorkee).
Proc. National Solar Energy Convention:
of Solar Energy Society of India.
Bhavnagar. Dec 1978.616-22.

286. LOW COST SOLAR WATER HEATING FOR LARGE SCALE APPLICATIONS.

KANE, Vijay R. (4, Professors Quarters, Navarangpura, Ahmedabad 380 009). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec.1979.158-62.

287. PERFORMANCE OF A COLLECTOR/STORAGE SOLAR WATER HEATER.

SODHA, M.S. and others. Energy Conversion.19,1;1979;41-47.

288. PERFORMANCE OF A COLLECTOR-CUM-STORAGE TYPE SOLAR WATER HEATER.

CHAUHAN, Rajinder Singh (Mech. Engg. Dept. Punjab Agril. Univ., Ludhiana, Punjab) and KADAMBI, V. Solar Energy.18,4;1976;327-335.

289. PERFORMANCE OF STORAGE TYPE SOLAR WATER HEATERS WITH MULTIPLE DAILY WATER WITHDRAWLS.

KUMAR, Anil and others. (Mech. and Industr Engg. Dept., Univ. of Roorkee, Roorkee, 247 672). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.170-4.

290. PERFORMANCE STUDY OF SPRAY-TYPE SOLA WATER HEATER.

AGARWAL, H.C. and SHAH, R.K. (Dept. of Met Engg., Indian Institute of Technology, Kanpur). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.168-170.

291. PIRE TYPE SOLAR WATER HEATER.

KAILA, S.K. and others (Central Building Res. Institute, Roorkee).
13p(1977). Mimeograph.

#### 5.1 WATER HEATING (contd.)

292. SOLAR ENERGY FOR HOT WATER SUPPLY IN TROPICAL COUNTRIES.

MATHER, G. C. (Netional Buildings Organisation, Nirmen Bhuvan, New Delhi-110 011). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2,1497.

#### 293. SOLAR WATER HEATER.

VARSHNEY, M.C. (College of Agril. Engg., Mehatma Phule Krishi Vidyapeeth, Rahuri, Dt. Ahmednager) and BHAPKAR, D.G. (Mahatma Phule Krishi Vidyapeeth, Rahuri). Invention Intelligence.13,5; May 1978; 187-190.

294. SOLAR WATER HEATERS AND RURAL DEVELOPMENT.

GUPTA, V.K. (Dept. of Mech. Engg., H.B. Technological Institute, Kanpur 208 002). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar.Dec 1978.716-21.

295. SOLAR WATER HEATERS IN BUILDINGS.

GARG, N.K. and Shiam Lal (Central Building Res. Institute, Roorkee). Design; Nov 1979.28-32.

296. SOLAR WATER HEATING.

GARG, H.P. (Solar Energy Section, Central Arid Zone Res. Institute, Jodhpur). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.581-7. 297. STANDARD ISED TYPICAL DESIGNS OF SOLAR WATER HEATER SYSTEMS FOR SUPPLYING HOT WATER FOR HEATING AND DOMESTIC PURPOSES FOR DETACHED HOUSES IN INDIA.

SINGH, Deep Narayan. (Bihar College of Er Univ. of Patna, Patna 800 005). International Solar Energy Congress and Exposition. Los Angeles. 1975.

298. STATUS OF SOLAR WATER HEATERS IN INDIA.

GARG, H.P. and MANN, H.S. (Central Arid Zone Res. Institute, Jodhpur, Rajasthan - 342 001).

Proc. Southeast Conf. on Applications of Solar Energy. Baton Rouge, April 1976.
244-251.

299. SYSTEM DESIGN OF SOLAR WATER HEATERS.

SINGHAL, O.P. (Rice Process Engg. Centre, Indian Institute of Technology, Kharagpur 721 302). Harvester,18;1976;23—8.

300. SYSTEMS DESIGN FOR SUPPLEMENTARY WATER HEATING BY SOLAR ENERGY.

KUMAR, Vinod and others. Energy Management.2,4; Oct-Dec 1978;277-81.

301. TESTING OF A COLLECTOR-CUM-STORAGE TYPE OF SOLAR WATER HEATER.

CHAUHAN, R.S. Proc. Int. Solar Energy Congress and Exposition. Los Angeles.California.1975.

#### .1 WATER HEATING (contd.)

O2. TRANSIENT BEHAVIOUR OF COLLECTOR CUM-STORAGE TYPE OF SOLAR WATER
EATER.

INGH, Daljit and GUPTA, V.P.(Punjab gril. Univ., Ludhiana 141 004). un mankind's future source of energy: roc. of the Int. Solar Energy Society ongress, New Delhi, Jan 1978. Vol.2, 147.

03. TWO PHASE WATER HEATER.

iOIN, R.S. (Energy Systems Group, R & D entre, Hindustan Brown Broveri Ltd., Paroda 390 001). Troc. National Solar Energy Convention: if Solar Energy Society of India. Hombay. Dec 1979.163-9.

104. VARIOUS TYPES OF SOLAR WATER HEATERS DEVELOPED AT CBRI. ROORKEE.

HANDRA,M. and others (Physics Lab., Pentral Building Res. Institute, Roorkes 247667).

National Seminar on Physiological Basis of Crop Productivity and Harvesting Solar Energy in relation to Agril. Development. Aligarh. March 1979.

305. WATER AND SPACE HEATING BY SOLAR ENERGY.

MOHAN, Dinesh and others (Central Building Res. Institute, Roorkee). Sun mankind's future source of energy:Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2.1621-4.

306. YEAR ROUND PERFORMANCE STUDIES ON A BUILT IN STORAGE TYPE SOLAR WATER REATER AT JODHPUR.

GARG, H.P. (Central Arid Zone Res. Institute, Jodhpur).
Solar Energy. 17,3; 1975.167-72.

#### 5.2 COOKING

307. APPROACH TO A SELF SUFFICIENT DOMESTIC SOLAR ENERGY UNITS.

GHOSH, M.K. (Teta Iron and Steel Co.Ltd., 228 Outer Circle Road, Jamehedpur 831 001). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol. 2. 2165-6.

308. CASE FOR THE "SUN-BASKET".

BHUSHAN, Bharat (Science Policy Unit, Administrative Staff College of India, Hyderabad).
Invention Intelligence 12,4;April 1977; 223-4.

309. DESIGN OF A FLAT PLATE SOLAR COOKER FOR RURAL APPLICATION.

PARIKH, Mohan and PARIKH, Rahul (Agril. Tools Res. Centre, Bardoli 394 601).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar.

Dec 1978.257-61.

310. DOMESTIC MULTI-PURPOSE SOLAR ENERGY UNIT.

CHOSH, M.K.
Proc. National Solar Energy Convention:
of Solar Energy Society of India. Calcutt:
1976.237-9.

311. DOMESTIC SOLAR COOKER.

ARNIKAR, H.J. (Dept. of Chemistry, Univ. of Poona, Pune 411 007).

Proc. National Solar Energy Convention: of Solar Energy Society of India.
Calcutta.1976.235-6.

312. HOME MADE SOLAR COOKER.

BHOLA, Bhimsen (J-9/12, Rejouri Gerdens, New Delhi 110 027).
Invention Intelligence.14, 8; Aug 1979. 319-20.

### 5.2 COOKING (contd.)

317, OPTIMISATION TECHNIQUE APPLIED TO THE DESIGN OF AN INTERMITTENT SOLAR COOKER.

PRAKASH, Rajendra and SINGH, Bhupinder. (Mech. and Industrial Engg. Dept., Univ. of Roorkee, Roorkee 247 672). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2, 2099a - 2106.

314. PERFORMANCE EVALUATION OF FIVE - SOLAR COOKERS.

GARG, H.P. and others (Central Arid Zone Rea. Institute, Jodhpur). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2. 1491-6.

315. PERFORMANCE OF A FLAT PLATE COLLECTOR FOR SOLAR COOKER.

RAJPUT, R.K. (Thapar Polytechnic, Patiala) and SINGH, Gajendra (Dept. of Mech. Engg., Thapar College of Engg., Patiala). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.57-61.

316. SIMPLE HOT BOX TYPE SOLAR COOKER.

GARG, H.P. and THANVI, K.P. (Central Arid Zone Res. Institute, Jodhpur). Res. and Industry.21,3;1976;184-6

317. SIMPLE SOLAR COOKER FROM INDIA.

VAUGHAN, 8.0. (MRA Centre, Asia Plateau, Panchgani, Maharashtra). Appropriate Technology.6,18 May 1979;12. 318. SOLAR COOKER - CONCENTRATOR TYPE.

KULKARNI, P.K. (Mohor,64/17 Erandavane, Pune 411 004). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavne, Dec 1978.262-7.

319. SOLAR COOKERS.

HODA,M.M. (Appropriate Technology Development Association, Post Box 311, Gandhi Bhawan, Lucknow). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2. 2065-70.

320. SOLAR COOKING APPLIANCES.

SALARIYA, K.S. and SINGH, Mangal (Mech. Engg. Dept. and Dept. of Farm Power and Machinery, Punjab Agril. Univ., Ludhiana 141 004).

Proc. National Solar Energy Convention of Solar Energy Society of India.
Bhavnagar. Dec. 1978.250-6.

321. SOLAR DISTILLATION AND SOLAR COOKING

GOMKALE, S.K. (Central Salt and Marine Chamicals Res. Institute, Bhavnagar). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.595-601.

322. SOLAR OVEN.

PARIKH, Mohan. (Yantra Vidyalaya Agro Industrial Service Centre, Faculty of Gandhi Vidyapit, Vedchhi, Suruchi Campus, P.O. Box 4, Bardoli 394 601.) 15p.(1976). Mimeograph.

# 5.2 COOKING (contd.)

323. SOLAR OVEN AS A SUBSTITUTE TO SOLAR COOKER.

RAJIVA, and VATS,R.K. (106/195, Gandhi Nagar, Kanpur 208 012).
Invention Intelligence.14,11; Nov 1979; 442-50.

324. SOLAR OVEN FOR COOKING.

GARG, H.P. (Central Arid Zone Res. Institute)
Jodhpur).
Indian Farming.27,5;1976;7-9.

325. TESTING OF FIVE SOLAR COOKERS

GARG, H.P. (Central Arid Zone Res. Institute, Jodhpur, Rajasthan). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.240-3.

### 5.3 DRYING

326. BATCH DRYING STUDIES ON SOLAR PADDY DRYER-ONE TON PER DAY CAPACITY AND AN EXPERIMENTAL INVESTIGATION AND HEAT TRANSFER STUDIES ON ONE TON PER DAY SOLAR PADDY DRYER.

MUTHUVEERAPPAN, V.R. and others (Annamalai University, Annamalainagar).
Int. Solar Energy Congress.1977. Extended Abstracts.1553-60.

327. BUILT-IN SOLAR FABRIC DRIER.

MYLES, A.S. and DAS, R.K. ( R & D Section, Tullu Elect. Works. U.P. National Manufacturers Pvt. Ltd., Varanasi). 3.(1978). Mimeograph. 328. COMMERCIAL SOLAR DRYER FOR INDIAN CONDITIONS.

AGARWAL, H.C. and GUPTA, V.K. (Dept. of Mech. Engg., Indian Institute of Technology, Kanpur).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.

1976.244-8. Also, pubd in Proc. Int.

Solar Energy Congress and Exposition.

Los Angeles. California.1975.

329. CONCERTED EFFORTS FOR CONVERSION OF A SOLAR STILL INTO A SOLAR DRYER.

ANAND, Satya Prakash. (Chem. Oceanography Div., National Institute of Oceanography, P.O. Dona Paula, Goa 403 004). National Seminar on the Role of Mech. Engineer in Rural Development. Annamalsinagar. March 1979.

330. CONTINUOUS SOLAR GRAIN DRYER.

PATTANAYAK, S.and others (Central Mech. Engg. Res. Institute, Durgepur 713 209). Sun mankind's future source of energy:Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2.1964—6.

331. DEHYDRATION OF FRUITS AND VEGETABLES USING SOLAR ENERGY.

GUPTA, S.C. (Dept. of Agril. Engg., Allahabad Agril. Institute, Allahabad, U.P.).
Sun mankind's future source of energy:
Proc. of the Int. Solar Energy Society
Congress, New Delhi, Jan 1978.Vol.2; 2080-5.

332. DESIGN AND CONSTRUCTION DETAILS OF SOLAR PADDY DRYER (PROTOTYPE).

AMBALAVANAN, G. Annual Workshop in PHT - Coimbators. 1976. 333. DEBICH OF PERFORMANCE, STICKED TO STAND PERFORMANCE, STICKED TO STAND STANDARD CONVECTION OF THE STANDARD CONVECTION OF THE

SANDHU. B.S. end others (Punjab Agrile of Univ., Ludhiene 141,004). See 1979 Int. Congress joint meeting with American Section of Int. Salar Energy Society. Atlanta, Georgia, 1979.

OF SOLAR RICE BRAN STABILIZER.

MISHRA, P. (Agril. Engg. Div., Central Rice Res. Institute, Cuttack 753 006) and others. Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.336-40.

335. DESIGN OF SOLAR PADDY DRYER.

MUTHUVEERAPPAN, V.R. and others.
(Annamalai Univ., Annamalainagar).
Proc. of 7th meeting of All India Solar
Energy Working Group and conf. on
utilization of Solar Energy. Ludhiana.
Nov 1975.137-41.

THE PROPERTY OF STATE OF SAME

336. DESIGN OF A SOLAR TIMBER SEASONING KILN.

SINCH, Y. and CHANDRA, Ashok (Central Building Res. Institute, Roorkee).
Sun mankind's future source of energy:
Proc. of the Int. Solar Energy Society
Congress, New Delhi, Jan 1978. Vol.2.

337. DEVELOPMENT OF A SOLAR AGRICULTURAL DRYER.

CARC, H.P. and others (Central Arid Zone Res. Institute, Jodhpur). Proc. National Solar Energy Conventions of Solar Energy Society of India. Bhavnagar. Dec 1978.286-90. HEATED DEHUM ID IT ICATION SYSTEM FOR DEHYDRATION OF PAPOY AND GROUNDNUT.

KUMARASWAMY, C-and others.
Int. Symposium on Solar Energy, NICE,
France. Oct 1979.

339. FORCED CONVECTIVE BATCH DRYING IN A CYLINDRICAL BED SOLAR GRAIN DRYE

STHAPAK, B.K. (Dept. of Mech. Engg., Govt. Engg. College, Ujjain M.P.) and others. Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.253-6.

340. PERFORMANCE STUDIES ON A NATURAL DRAFT BASED SOLAR TIMBER SEASONING? KILN.

SINGH, Y. and GOSWAMI, N.L. (Central Building Res. Institute, Roorkee). Proc. National Soler Energy Conventions of Soler Energy Society of India. Bhavnagar. Dec. 1978.291-8.

Et Ar Mar Har Govern

341. PERFORMANCE STUDIES ON SOLAR AIR
HEATERS FOR THE DEVELOPMENT OF SOLAR
FRUITS AND VEGETABLES DRYER.

175 11 11 AF 06

PANDE, P.C. (Central Arid Zone Res.
Institute, Jodhpur) and others.
Proc. National Solar Energy Conventions
of Solar Energy Society of India. Bombay.
Dec.1979.23-8.

342. PORTABLE SOLAR GRAIN DRYER.

ILYAS, S.M. and KURUP, C.T. (Central Rice Res. Institute, Cuttack 753 006). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.273-9.

## 5.3 DRYING (contd.)

343. "SOLAR BLOWER" FOR GRAIN DRYING AND VENTILATION.

ALAM, Anwar (College of Agril. Engg.,J. N.K.V.V.Jabelpur, M.P.) and others. Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2. 2071-4.

344. SOLAR DRIER FOR DRYING APRICOTS.

BHATIA, A.K. and GUPTA, S.C. (Regional Res. Lab., Jammu-Tawi 180 001). Res. and Industry.21,3;1976;188-91.

345. SOLAR DRIER FOR DRYING FISH AND FISHERY PRODUCTS.

CHAKRABORTY, P.K. (Central Institute of Fisheries Tech., Cochin -682 003). Res. and Industry. 21, 3; 1976; 192-4,

346. SOLAR DRYER FOR RURAL FIELDS.

MARATHE, C.R. (Dept. of Mathematics, Indian Institute of Technology, Powai, Bombay 400 076). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.280-5.

347. SOLAR DRYING.

MUTHUVEERAPPAN, V.R. and others. (Mech. f Engg. Dept., Annamalai Univ., Annamalai agar).
I.C.A.R. summer Instt. on utilisation of soler energy. Kharagpur. 1977. 213-20.

348. SOLAR DRYING IN THIN LAYER.

BHATTACHARYYA, T.K. and MAZUMDAR, S.K. (Central. Mech. Engg. Res. Institute, Mahatma Gandhi Ave., Durgapur 713 209). Mech. Engg. Bulletin (Durgapur).7,3; 1976:89-94.

349. SOLAR DRYING OF CHEMICALS.

SHAH, B.M. and GOMKALE, S.D.(Central Salt and Marine Chemicals Res. Institute, Bhavnagar 364 002).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2, 1967-71.

350. SOLAR GRAIN DRYING.

SHANMUGHAN, C.R. (Dept. of Agril. Processing, College of Agril. Engg., Tamil Nadu Agril. Univ., Coimbatore—641 003).
Seminar on Post Harvest Technology. Vellanikara, Trichen. Oct 1978.

351. SOLAR HEATED AIR FOR DRYING PADDY.

KEMPE GOWDA, Beand others (Univ. of Agril. Sciences, Hebbal, Bangalore 560 024). Sun mankind's future source of energy: Proceof the Int. Solar Energy Society Congress. New Delhi, Jan 1978. Vol.2.1945.

352. STUDIES ON A SOLAR TIMBER SEASONING SKILL.

SINGH, Y. (Central Building Res. Institute, Roorkee).

IPIR I J. 6,1; Jan-June 1976.42-4.

353. STUDIES ON PERFORMANCE CHARACTERISTICS OF SOLAR GRAIN DRYING SYSTEM.

BISWAS, D.K. (Dept. of Science and Technology, New Delhi 110 029) and TANDON, S.K. (Ind. Agril. Res. Institute, New Delhi 110 012.).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress. New Delhi, Jan 1978.Vol.2.
1935-9.

### 5.3 DRYING (contd.)

354. SUN-DRYING STUDIES OF RAW AND PARBOILED PADDY.

SINGHAL, 0.P. and GUPTA, C.P. (Dept. of Agril. Engg., Indian Institute of Technology, Kharagpur, W.8.) Proc. National Solar Energy Conventions of Solar Energy Society of India. Calcutta. 1976.251-3.

355. USE OF SOLAR ENERGY FOR PARBOILING AND DRYING OF PADDY.

SINCHAL, O.P. (J.N. Krishi Vishwavidyalaya, Jabalpur, M.P.) and GUPTA, G.P. (Agril. Engg. Dapt., Indian Institute of Technology, Kharagpur, W.B.).
Sun mankind's future source of energy: Proc. of the Int. Soler Energy Society Congress, New Delhi, Jan 1978.Vol.2.1958-63.

356. UTILIZATION OF SOLAR ENERGY FOR DRYING GROUNDNUT.

SINGH, Balwant. and others (Agril. Engg. Dept., Indian Institute of Technology, Kharagpur).
Harvester.17,1975;32-7.

357. YEAR ROUND OPERATION AND ECONOMICS OF ONE TON/DAY SOLAR PADDY DRYER.

MUTHUVEERAPPAN, V.R. and IYNKARAN, K. (Mech. Engg. Dept., Annamalai Univ., Annamalai Univ., Annamalai Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.665-9.

358. YEAR ROUND PERFORMANCE STUDIES ON A SOLAR CABINET DRYER AT JODHPUR.

GARL, H.P. and THANVI, K.P. (Central Arid Zone Res. Institute, Jodhpur). Proc. of 7th meeting of All India Solar Energy Working Group and Conf. on utilization of Solar Energy. Ludhiana. Nov 1975.142-6.

#### 5.4 DISTILLATION

359. ASSESSMENT OF THE APPROPRIATENESS OF SOLAR DESALINATION TECHNOLOGY FOR RURAL AREAS IN ARID REGIONS OF INDIA.

BHUSHAN, Bharat (Sc. Policy and Management of Res. Unit, Administrative Staff College of India, Bella Vista, Hyderabad-500 475.) 19. April 1978. Mimeograph.

360. CONCERTED EFFORTS TO IMPROVE THE EFFICIENCY OF MULTI-SURFACE SOLAR STILL.

ANAND, Satya Prakash. (National Institute o Oceanography, P.O. Dona Paula, Goa 403 004 Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.238-41.

361. DESIGN STUDIES ON CONVENTIONAL DOUBLE SLOPED SOLAR STILLS.

GARG, H.P. (Central Arid Zone Res. Institute, Jodhpur). Ind. and Eastern Engineer.117,8; Aug 1975,357-9.

362. DEVELOPMENT OF A NEW FLOATING TRAY SOLAR STILL.

GARG, H.P. and THANVI, K.P. (Central Arid Zone Res. Institute, Jodhpur). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.209-10.

363. DEVELOPMENT OF SOLAR STILL FOR THE SUPPLY OF LABORATORY DISTILLED WATER AND POTABLE WATER FOR A TYPICAL VILLAGE HOME.

NARESH-KUMAR, U. and others (Birla Institute of Tech. and Sc., Pilani). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol. 2. 2147-51.

### 5.4 DISTILLATION (contd.)

364. ECONOMICS OF SOLAR FLASH EVAPORATION.

GUPTA, Y.P. and SINGH, Daljit. (Punjab Agril. Univ., Ludhiana). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.248-52.

365. EFFECT OF CLIMATE OPERATIONAL AND DESIGN PARAMETER ON THE YEAR ROUND PERFORMANCE ON THE SINGLE SLOPED AND DOUBLE SLOPED SOLAR STILL UNDER INDIAN ARID ZONE CONDITIONS.

GARG, H.P. and MANN, H.S. (Central Arid Zone Res. Institute, Jodhpur). Solar Energy.18,2; 1976;159-164.

366. 5000 m<sup>3</sup> PER DAY SOLAR DESALINATION PLANT - A CASE STUDY.

CHHABRA, A.K. and others (Desalination and Effluent Engg. Div., Bhabha Atomic Res. Centre, Trombay, Bombay).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.211-3.

367. MINI SOLAR STILL FOR RURAL APPLICATIONS.

MUTHUVEERAPPAN, V.R. and KAMARAJ, G.(Mech. Engg. Dept., Annamalai Univ., Annamalainagar 608 101).

Sun mankind's future source of energy:
Proc. of the Int. Solar Energy Society
Congress, New Delhi, Jan 1978. Vol.2,
2036-40.

368. MODES OF ENERGY TRANSFER IN A SOLAR STILL.

ITTY, P.I. (Mech. Engg. Dept., Regional Engg. College, Calicut).
Proc. National Solar Energy Convention: of Solar Energy Society of India.
Bombay. Dec 1979.242-7.

369. MODIFIED BASIN - TYPE SOLAR STILL.

ANAND, Satya Prakash (National Institute of Oceanography, P.O. Dona Paula, Goa 403 004).
Defence Sc. J. 28,1;1978;5-6.

370. NEW METHOD FOR SOLAR DESALINATION OF SEA WATER.

RAJAN, S.T. (Mech. Engg. Dept., Indian Institute of Technology, Kharagpur 721 302) and SIVANANDAN, C. (Mech. Engg. Dept., Govt. College of Engg., Salem 636 011). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2, 2158-62.

371. NOTE ON FIELD TRIALS OF A NEW PROTOTYPE SOLAR STILL.

ANAND, Satya Prakash (Chemical Oceanography Div., National Institute of Oceanography, P.O. Dona Paula, Goa 403 004).
Mahasagar.10,1-2,1977.

372. PROBLEMS IN CONSTRUCTION AND MAINTENANCE OF LARGE SOLAR STILLS PLANTS.

GOGHARI, H.D. and others. (Central Salt and Marine Chemicals Res. Institute, Bhavnagar).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.231-7.

373. SIMPLE METHOD FOR IMPROVING THE PERFORMANCE AND UTILITY OF BASIN TYPE SOLAR STILLS.

RAMACHANDRAN, P.N. (Birla Institute of Tech. and Sc., Practice School Faculty at Gwalior Rayon, Nagda).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar Dec 1978.268-72.

### 5.4 DISTILLATION (contd.)

374. SOLAR DISTILLATION IN INDIA.

GOMKALE, S.D. and GOGHARI, H.D. (Central Salt and Marine Chemicals Res. Institute, Bhavnagar 364 002). Sun mankind's future source of energy! Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2, 2021-5. Also, in Annals of Arid Zone. 15.3;1976;206-18.

375. SOLAR ENERGY UTILIZATION FOR DESALINATION.

DIXIT, D.K. and DESHMUKH, S.T. (Dept. of Mech. Engg., Visuesvaraya Regional College of Engg., Nagpur).

Proc. National Solar Energy Convention:
of Solar Energy Suciety of India.
Calcutta.1976.207-8.

376. SOLAR - MHD DESALINATOR.

TARNEKAR, M.G. (Dept. of Physics, Govt. College of Sc., Raipur, M.P.) and ZADGAONKAR, A.S. (Govt. College of Engg. and Tech., Raipur, M.P.) Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol. 2, 2156-7.

377. SOLAR POWER FOR ELECTROD IALYSIS.

HARKARE, W.P. and others (Central Salt and Marine Chemicals Res. Institute, Bhavnagar).

Proc. National Solar Energy Conventions of Solar Energy Society of India.

8havnagar. Dec 1978.382-91.

378. THERMODYNAMICS OF SOLAR FLASH EVAPORATION OF SEA WATER.

SINGH, Daljit and GUPTA, Y.P. (Punjab Agril. Univ., Ludhiana). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.171-2. 379. THERMOECONOMICS OF SOLAR FLASH EVAPORATION OF SEA WATER.

SINGH, Daljit and GUPTA, Y.P. (Punjab Agril. Univ., Ludhiana, Punjab). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2, 2051-5.

### 6 PHOTOVOLTAIC CONVERSION

SOLAR CELLS USING A DISTRIBUTED
CIRCUIT MODEL.

SHAH, P. Solid State Electronics.18,12;Dec 1975; 1099-1106.

381. ANALYTICAL DETERMINATION OF A SOLAR CELL ARRAY CHARACTERISTICS.

ANAND, M.M.S. and MAHESHWARI, L.K. (Elect. and Electronics Engg. Group, Birla Institute of Tech. and Sc., Pilani, Rajasthan 333 031).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979. 421-5.

382. BACKWALL SCHOTTKY BARRIER SOLAR CELL: WITH AN INTERFACIAL LAYER.

BHATTACHARYA, K.and others (Univ. of Kalyani, Kalyani).
Physics Status Solidi (a).41,1; May 1977; 317-21.

383. BACK-WALL SCHOTTKY BARRIER SOLAR CELLS: WITH AND WITHOUT AN INTERFACIAL

BASU, P. and others (Dept. of Physics, Univ. of Kalyani, Kalyani, W.B.). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.114-8. 384. BOGUS-TYPE TREATMENT OF CU25- CdS SOLAR CELLS USING DEPOSITION FROM SOLUTION.

DEB, S. and others. (Dept. of Electronics and Telecommunication Engg., Jadavpur Univ., Calcutte - 700 032).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar.
Dec 1978. 691-6.

385. CHARACTERIZATION OF AMORPHOUS SEMICONDUCTOR MATERIALS FOR SOLAR CELL APPLICATIONS.

PAUL, Dilip K. (Elect. Engg. Dept. and Advanced Center for Materials Sc., Indian Institute of Technology, Kanpur 208 016) and MITRA, Shashanka, S. (Elect. Engg. Dept., Univ., of Rhode Island, Kingston R.I. 02881). Sun mankind's future source of energy:Proc. of the Int. Soler Energy Society Congress, New Delhi, Jan 1978.Vol.2;651.

386. CONVERSION EFFICIENCY OF SOLAR CELLS.

XAVIER, C.F. and SAVARI RAJ, G.A. (Physics Dept., St. Joseph's College, Tiruchirapalli 620 002).
Acta Ciencia Indica. 3,4;1977; 332-3.

387. DEPENDENCE OF SCHOTTKY BARRIER SOLAR CELL EFFICIENCY ON THE THICKNESS OF THE INTERFACIAL LAYER.

SRIVASTAVA, S. and others (Physics Dept., Birla Institute of Tech. and Sc., Pilani -333 031)

Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.107-10.

388. DEVIATION IN SOLAR CELL
CHARACTERISTICS FROM THEIR IDEAL
BEHAVIOUR.

BHATNAGAR, P.K. (Dept. of Physics, Univ., of Delhi, Delhi 110 007) and DHARIWAL, S.R (Dept. of Physics, Govt. College, Ajmer Rajasthan).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.

389. EFFECT OF CONCENTRATED SUNLIGHT ON THE VARIOUS PARAMETERS OF THE -N JUNCTION SOLAR CELL.

1976.76-8.

SWAMI, N.K. and GHULE, H.M. (Birla Institute of Tech. and Sc., Pilani 333 031 Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.445-50.

390. EFFECT OF IMAGE FORCE ON THE CHARACTERISTICS OF MOS SOLAR CELL.

BHATNAGAR, P.K. (Dept. of Physics and Astrophysics, Univ. of Delhi, Delhi 110 00 and others.

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar.
Dec 1978.670-4.

391. EFFECT OF MINORITY CARRIER DIFFUSION LENGTH ON EFFICIENCY OF SCHOTTKY BARRIER SOLAR CELL.

BHAUMIK, B. and SHARAN, R. (Dept. of Elect. Engg., Indian Institute of Technology, Kanpur, U.P.).

Proc. National Solar Energy Convention: of Solar Energy Society of India.

Calcutta.1976.111-3.

392. EFFECT OF NON-UNIFORM OXIDE LAYER ON MOS SOLAR CELL CALCULATIONS.

DHARIWAL, 5.R. (Dept. of Physics, Govt. College, Ajmer 305 001) and others. Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.415-20.

393. EFFECT OF THIN OXIDE LAYER ON THE CURRENT VOLTAGE RELATIONS OF SCHOTTKY BARRIER SOLAR CELLS.

DHARIWAL, S.R. (Dept. of Physics, Govt. College, Ajmer 305 001) and others. Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec. 1978.501-5.

394. ELECTROCHEMICAL PHOTOVOLTAIC CELLS FOR SOLAR ENERGY CONVERSION.

NAGASUBRAMANIA, G. and SASTRI, M.V.C. (Materials Sc. Res. Centre, Indian Institute of Technology, Madras 600 036). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.379-86.

395. ELECTROCHEMICAL STORAGE OF PHOTOVOLTAIC SOLAR ENERGY.

SAHA, H. (Dept. of Physics, Univ. of Kalyani, Kalyani 741 235). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.209-17.

396. EVALUATIONS OF PHOTOVOLTAIC OUTPUT CHARACTERISTICS OF SOLAR CELLS.

BHADURI, A. (Solid State Physics Laboratory, Lucknow Road, Delhi 110 807). Solar Cell Tech. Report No.11, SPL, April 1977. 397. EXPERIMENTAL INVESTIGATION OF VARIOUS BARRIER METALS FOR SCHOTTKY BARRIER AND MOS SOLAR CELLS.

KAR, S. and others (Elect. Engg. Dept. and Materials Sc. Programme, Indian Institute of Technology, Kenpur 208 016).

Proc. National Solar Energy Convention: of Solar Energy Society of India.

Bhavnagar. Dec.1978.528-33.

398. EXPERIMENTAL STUDY OF DIFFERENT BARRIER METALS FOR MOS SOLAR CELLS.

KAR, S. and others. (Elec. Engg. Dept., Indian Institute of Technology, Kanpur 208:016).
153 Electrochemical Society Meeting. Washington, Seattle, May 1978.

399. EXPERIMENTAL STUDY OF MOS SOLAR CELLS UNDER CONCENTRATION.

KAR, S. and others (Dept. of Elect. Engg., Indian Institute of Technology, Kanpur 208 016).

Proc. National Solar Energy Convention : of Solar Energy Society of India. Bhavnagar.
Dec 1978.478-86.

400. EXPERIMENTAL STUDY OF SERIES COMBINATION OF SOLAR CELLS.

LAHIRI, R. and others. (Central Electronics Ltd., Sahibabad, U.P.). IEEE Photovoltaic Specialists Conference. 13. Washington, D.C. June 1978.1080-83.

401. EXPERIMENTAL STUDY OF THE INTERFACE PROPERTIES OF MOS TUNNEL DEVICES.

KAR, S. (Dept. of Elect. Engg., Indian Institute of Technology, Kanpur 208 016). IEEE Photovoltaic Specialists Conference 12. Baton Rouge, 1976.922-8.

40

402. FABRICATION OF LATERAL SCHOTTKY BARRIER SOLAR CELL.

LAHIRI, R. and SHARAN, R. (Dept. of Elect. Engg., Indian Institute of Fechnology, Kanpur, U.P.).

Proc. National Solar Energy Convention: of Solar Energy Society of India.
Calcutta. 1976.118-20.

403. HIGH SOLAR CONVERSION EFFICIENCY
AT N-IN-P- ALKALINE REDOX
ELECTROLYTE SYSTEM.

RAMPRAKASH, Y. and others (Materials Sc. Centre, Indian Institute of Technology, Kharagpur). Proc. National Solar Energy Convention: of Solar Energy Society of India Bombay. Dec 1979.392-5.

404. I-V, ID-V, AND C-V CHARACTERISTICS OF MOS AND PN JUNCTION SOLAR CELLS UNDER CONCENTRATION.

KAR, S. and others (Elect. Engg. Dept., Indian Institute of Technology, Kanpur 208 016).
IEEE PHOTOVOLTAIC Specialists Conference.
13. Washington, D.C., June 1978.667-8.

4C5. IN-SITU MONITORING OF SATELLITE SOLAR CELL PANELS FROM GROUND STATION.

MAHENDRA, K.K. and others (Ind. Space Res. Organisation, Satellite Centre, A1-6 Peenya Industrial Estate, Peenya 562 140, Bangalore). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2; 749.

406. INFLUENCE OF COPPER AND TIN ON SOLAR CELL PERFORMANCE.

PANICKER, M.P.R. and others(Vikram Sarabhai Space Centre, Indian Space Res. Organisation, Trivandrum).

Proc. 7th meeting of All India Solar Energy working group and conf. on the utilization of Solar Energy.

Ludhiana.Nov 1975.44-5.

407. INVESTIGATION OF JUNCTION FORMATION AND REALISATION OF HIGH OPEN-CIRCUIT VOLTAGE IN CU. S- Cds SOLAR CELLS.

DEB, S. and others (Dept. of Electronics and Telecommunication Engg., Jadavpur Univ., Calcutta).
Sun mankind's future source of energy:Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2,665.

408. MATCHING OF SOLAR CELLS AND PERFORMANCE OF A SOLAR BATTERY.

DEB, S. and others (Dept. of Electronics and Telecommunication Engg., Jadavpur Univ., Calcutta).

Proc. Int. Solar Energy Congress and Exposition. Los Angeles. Californis.1975.

Also.pubd. in "Solar Energy". 19,2;1977;
171-7.

409. MATERIALS FOR THE DIRECT CONVERSION OF SOLAR ENERGY.

SEETHARAMAN, V. (Bhabha Atomic Res. Centre, Trombay, Bombay). and MUKHOPADHYAY, P. Transactions of the Ind. Institute of Metals. 28,2; April 1975;102-115.

410. METAL-CU<sub>2</sub>S SCHOTTKY BARRIER SOLAR CELLS.

SAHA, H. Proc. Int. Solar Energy Conference and Exposition. Los Angeles, California.1975.

411. METALLIZATION OF POLYCRYSTALLINE SOLAR CELLS BY ALUMINIUM-SILVER.

MISRA, S.C.K. and others (Div. of Material: National Physical Lab., New Delhi 110 012). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombey. Dec 1979.283-5.

412. NEW THIN SOLAR CELL WITH TOTALLY REFLECTING BACK MIRROR.

JAIN, V.K. (Solid State Physics Lab., Delhi) and JAIN, S.C. Physics Status Solidi (A) Applied Research.30,1; July 1975; K69-72.

413. NOVEL SOLAR CELL.

RASTOGI, S.C. and others (M.M.M. Engg. Collage, Gorakhpur).
Elect. India. 15,20;1975;17-20.

414. ON THE DESIGN AND OPERATION OF ELECTROCHEMICAL SOLAR CELLS.

KAR, S. (Dept. of Elect. Engg., Indian Institute of Technology, Kanpur — 208 016) and others. Solsr Energy.23,2;1979;129—139.

415. ON THE ROLE OF INTERFACE STATES IN MOS SOLAR CELLS.

KAR, S. and others (Dept. of Elect. Engg., Indian Institute of Technology, Kanpur-208 016).

Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2; 625. Also, in J. Applied Physics. 49,10; Oct 1978;5278-5283.

416. OPEN CIRCUIT TO SHORT CIRCUIT
SWITCHING: METHOD FOR LIFETIME
MEASUREMENT IN SOLAR CELLS.

DHARIWAL, S.R. and others (Dept. of Physics, Govt. College, Ajmer 305 001). Electronics Letters.15; July 1979;456-9. 417. OPT IMIZED ARRAYS OF SOLAR CELLS WHEN USED WITH CONCENTRATORS.

ANAND, M.M.S. and MAHESHWARI, L.K.
(Birla Institute of Tech. and Sc., Pilani, Rajasthan).
Sun mankind's future source of energy:
Proc. of the Int. Solar Energy Society
Congress, New Delhi, Jan 1978.Vol.2;736.

PARAMETRIC ANALYSIS OF THE PHYSICAL PROCESSES IN THIN FILM PHOTO-VOLTAIC DEVICES.

BHIDE, V.G. and others. (National Physical Lab., Hillside Road, New Delhi 110 012). Proc. National Solar Energy Conventions of Sola Energy Society of India. Bombay. Dec 1979. 330-6.

419. PERFORMANCE OF A SOLAR BATTERY USING QUASI-CYLINDRICAL ARRAY OF PLANE MIRRORS AS A CONCENTRATOR.

QE8, S. (Dept. of Electronics and Telecommunication Engg., Jadavpur Univ., Calcutta. 700 Q32) and SAHA, H. (Dept. of Physics, Univ. of Kalyani, W.B.). Solar Energy.17,1; April 1975;67-73.

420. PERFORMANCE OF DIFFUSED VERTICAL MULTIJUNCTION SOLAR CELL:

SODHA, M.S. and AGARWAL, A.K. (Electrophysics Group, Dept. of Physics, Indian Institute of Technology, New Delhi 110 029.)
Solar Energy.18,3;1976;265-8.

421. PERFORMANCE OF THE NOVEL SOLAR CELL.

RASTOGI, 5.C. and others (Elect. Engg. Dept., M.M. Engg. College, Gorakhpur, U.P.).
Prec. National Solar Energy Conventions of Solar Energy Society of India.
Calcutta.1976.82-4.

22. PERFORMANCE PARALLELISM AMONG SOLAR CELL MATERIALS.

PILLAI, N.R. and MUKHERJEE, M.K. (Vikram Sarabhai Space Centre, Ind. Space Res. Organisation, Trivandrum). Conf. of GaAs material and application t SSPL, Delhi.1978.

423. PHOTOVOLTAIC CONVERSION OF SOLAR ENERGY.

ISHWAR CHANDRA and JAIN, V.K. (Solid State Physics Lab., Delhi 110 007). Urje.3,2;1978;38-42.

424. PHOTOVOLTAIC CONVERSION OF SOLAR ENERGY USING CONCENTRATED LIGHT.

MARATHE, 8.R. (Central Electronics Engg. Res. Institute, Pilani 333 031). Chem. Engg. World.11,5;1976;31-4.

25. PHOTOVOLTAIC TRANSIENT METHOD FOR MEASUREMENT OF LIFETIME IN OLAR CELLS.

HARIWAL, S.R. and others (Dept. of hysics, Govt. College, Ajmer 305 001) toc. National Solar Energy Convention: of Solar Energy Society of India. Hombay. Dec 1979.411-4.

126. PHOTOVOLTAICS - A REVIEW.

JAIN, G.C. and DAS, B.K. (Div. of Materials Sc., National Physical Lab., New Delhi 110 012).

Proc. National Solar Energy Convention: of Solar Energy Society of India.

Bombay. Dec 1979.I.11 - I.36.

427. POSSIBLE PERFORMANCE OF BACK-WALL SCHOTTKY BARRIER SOLAR CELLS.

BASU, Paritosh (Dept. of Physics, Univ. of Kalyani, Kalyani 741235.W.B.). Physics Status Solidi (A) .37,2;Oct 1976;625-31.

428. POWER INCREASE FROM SOLAR CELLS
UNDER PYRAMIDAL—HORN TYPE CONCENTRATOR.

MAHABALA, R.A. and others. (Central Salt and Marine Chemicals Res. Institute, Bhavnagar). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.96-100.

429. PROGRESS REPORT FROM CENTRAL ELECTRONICS LTD., DELHI.

BHASKAR, E.V. (Central Electronics Ltd., Industrial Area 4, Sahibabad, U.P.) Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.18-20.

430. RELIABILITY STUDIES ON THIN FILM SOLAR CELLS FOR SATELLITE APPLICATION.

PILLAI, N.R. (Vikram Sarabhai Space Centre, Ind. Space Res. Organisation, Trivandrum). Proc. National Soler Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.521-7.

431. RESEARCH AND DEVELOPMENT WORK ON SOLAR CELL IN THE DEPT. OF ELECTRONICS AND TELECOMMUNICATION ENGG., JADAV PUR UNIVERSITY.

DAS, A.K. (Dept. of Electronics and Telecommunication Engg., Jadavpur Univ., Calcutta 700 032.). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.16.

432. RESPONSE OF A PARTIALLY ILLUMINATED SOLAR CELL.

SETH, 8.M. and DHARIWAL, S.R. (Univ. of Delhi, Delhi).
Int. J. Electronics. 42, 1; Jan 1977;41-8.

A33. RESPONSE OF A SOLAR CELL PARTIALLY ILLUMINATED BY A NON UNIFORM LIGHT SOURCE.

MUKHERJEE, M.K. and DAS, A.K.(Jadavpur Univ., Calcutta). Int. J. Electronics.44,2:Feb 1978:137-43.

AND NONUNIFORM ILLUMINATION WHEN USED WITH SOLAR CONCENTRATORS.

AGARWALA, Amits and others (Birla Institute of Tech. and Sc., Pilani-333 031, Rajasthan). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2; 734.

435. RESPONSE OF P-N JUNCTION SOLAR CELLS TO CONCENTRATED SUNLIGHT AND PARTIAL ILLUMINATION.

DHARIWAL, S.R. (Dapt. of Physics, Gowt. College, Ajmer-305 001) and others. Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2; 714.

436. ROLE OF HIGH PERFORMANCE SOLAR CELLS
IN PRACTICAL PHOTOVOLTAIC SYSTEMS.

JAIN, Vinay K. (Solid State Physics Laboratory, Delhi 110 007). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2;622. 437. ROLE OF OXIDE LAYER IN SCHOTTKY BARRIER SOLAR CELLS.

SWAMI, N.K. and others (Birle Institute of Tech. and Sc., Pilani - 333 031). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dac 1978.433-5.

438. ROLE OF SOLAR CELLS IN THE DEVELOPMENT OF RURAL AREAS.

MAHABALA and others. (Solar Energy Group, Central Salt and Marine Chemicale Res. Institute, Bhavnagar 364 002). Chem. Engg. World.11,5; May 1976;39-42.

A39. SATURATION OF PHOTOVOLTAGE AND PHOTOCURRENT IN P-N JUNCTION ON SOLAR CELLS.

DHARIWAL, S.R. and others (Gowt. College, Rajasthan).
IEEE Trans. Electron Devices. ED-23,5;
May 1976;504-507.

440. SEMICONDUCTING MATERIALS IN SOLAR ENERGY CONVERSION.

CHAUDHURI, N. (Defence Institute of Stores
Preservation and Packaging, HQ Eastern
Command, Calcutta-21).
Proc. National Solar Energy Convention:
of Solar Energy Society of India. Calcutta.1
69-70.

441. SENSITIVITY CALCULATIONS FOR THE DESIGN OF SOLAR CELLS: I: SCHOTTKY BARRIER DEVICES.

THAMPURAN, M.K.V.V. and others (Dept. of Elect. Engg., Indian Institute of Technology, Kanpur, 208 016). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2.754.

442. SOLAR CELL BASE Q-SWITCHING DEVICE FOR STUDYING THE EFFECT OF INTENSE PULSED RADIATION ON PHOTOVOLTAIC DEVICES.

HUSAIN, Bazmi R. and KUMAR, Kamal. (Laser Laboratory, Birla Institute of Tech. and Sc., Pilani 333 031). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979. 426-9.

443. SOLAR CELL FABRICATION FOR TERRESTRIAL APPLICATIONS.

KAR, S.and others (Elec. Engg. and Materials Sc. Dept., Indian Institute of Technology, Kanpur 208 016).
Symposium on Frontiers in Materials Research Kanpur. March 1977.

444. SOLAR CELL ILLUMINATED PARTIALLY BY
A NON-UNIFORM LIGHT BEAM.

DAS, A.K. and others (Dept. of Electronics and Telecommunication Engg., Jadavpur Univ., Calcutta 700 032.)

Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.122-5.

445. SOLAR CELL PROGRAMME FOR INDIA.

BHASKAR, E.V. (Central Electronics Ltd., Site 4, Industrial Area, Sahibabad 201 010 U.P.) Photovoltaic Solar Energy Conference. ¿Luxembourg, Sept. 1977.

446. SOLAR CELLS FOR POWER GENERATION ON COMMUNICATION SATELLITES.

PANICKER, M.P.R. and others(Vikram Sarabhai Space Centre, Ind. Space Res. Organisation, Trivandrum). J. of Institution of Engineers India. Pt. ET.55,2-3 ;April 1975;68-9. 447. SOLAR CELLS FOR SPACE APPLICATIONS:

KULSHRESHTHA, Arun P. (Ind. Scientific Satellite Project, Ind. Space Res. Organisation, Bangalore) and others.
J. of Scientific and Industrial Res.34,4;
April 1975.186-95.

448. SOLAR CELLS STUDIES UNDER WINSTON CONCENTRATOR FOR PHOTOVOLTAIC AND THERMAL CONVERSIONS.

MAHABALA, R.A. and others (Central Salt and Marine Chemicals Res. Institute, Bhavnagar 364 002). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.301-7.

449. SOLAR ENERGY GAUGING DEVICE USING A P-N JUNCTION SENSOR.

CHATTERJEE, K. C. (Mech. Engg. Dept., Jadavpur Univ., Calcutta - 32). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.157-8.

450. SOLAR PHOTOVOLTAIC POWER SOURCES FOR RURAL APPLICATIONS - AN INDIAN APPROACH.

BIST, B.M.S. (Central Electronics Ltd., Industrial Area-4, Sahihabad -201 010. U.P.).
Commonwealth Regional Conf. Workshop. 'CHOGRAM'. Hyderabad. June 1979.

451. SOLAR PHOTOVOLTAIC PROJECT REPORT.

BIST, 8.M.S. (Central Electronics Ltd., Industrial Area-4, Sahibabad 201 010-U.P.) Central Electronics Ltd., Annual Progress Report. No.3, April 1978\_March 1979.

452. SOLDER REQUIREMENTS FOR SOLAR CELLS.

BHASKAR, E.V. and VENKATESWARLU, U. (Central Electronics Ltd., Site 4, Industrial Area, Sahibabad 201 010).
Solder Seminar. Bangalore. Nov. 1979.

453. SOME CHARACTERISTICS OF OUTPUT CURRENT OF THE SOLAR CELLS.

MAHABALA, R.A. and VAIDYA, V.H. (Central Selt and Marine Chemicals Res. Institute, Bhavmagar). Salt Res. and Industry.12,1; March 1976. 31-36.

454. SOME COMMENTS ON THE EVALUATION OF ELECTRICAL PARAMETERS OF A SOLAR CELL.

MURTHY, 8.S. and others (Solid State Physics Lab., Delhi 110 007). J. of Institution of Electronics and Telecommunication Engineers. 21,7;1975; 359-63.

455. SOME RELATIONS GOVERNING MAJOR SOLAR CELL PARAMETERS.

RAV INDRA, N.M. and SR IVASTAVA, V.K. (Dept. of Physics, Univ. of Roorkes, Roorkes 247 672).
Solar Energy Materials.1,1-2; Feb 1979; 59-62.

456. STOICHIOMETRIC CU2S THIN FILMS FOR SOLAR CELLS.

DAS, S.R. and others (Dept. of Physics, Indian Institute of Technology, New Delhi 110 029). Sun mankind's future source of energys Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol2:695. 457. STUDY OF PHOTOCHEMICAL PROCESSES IN THE FERROUS-THIONINE SYSTEM.

MODRTHY, P.N. and others (Chemistry Div., Bhabha Atomic Res. Centre, Bombay 400 085), Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnaga; Dec. 1978.629-37.

458. STUDY OF SCHOTTKY BARRIER SOLAR CELT

SRIVASTAVA, S. and others (Physics Group, Birla Institute of Tech. and Sc., Pilani 333 031).

Proc. National Solar Energy Convention: of Solar Energy Society of India.
Bhavnagar. Dec 1978.467-73.

459. SURFACE RECOMBINATION AND INTERNAL CURRENTS IN A VERTICAL-JUNCTION SOLAR CELL.

DHARIWAL, S.R. and others (Govt. College Ajmer, Rajasthan). J. Applied Physics. 8,11;Aug 1975;1321-134

460. TECHNO-ECONOMIC FEASIBILITY ANALYSIS
OF SOLAR CELLS WITH AND WITHOUT
CONCENTRATORS FOR RURAL LIGHTING.

MAHABALA and others (Solar Energy Group, Central Salt and Marine Chemicals Res. Institute, Bhavnagar 364 002). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.506-17.

461. TEMPERATURE DEPENDENCE OF THE MAXIMUM-THEORETICAL EFFICIENCY IN SOLAR CELLS.

RAV INDRA, N.M. and SR IVASTAVA, V.K. (Dept. of Physics, Univ. of Roorkee, Roorkee - 247672). Selar Cells.1,1; Nov. 1979;107-9.

462. TEMPERATURE EFFECTS IN SCHOTTKY BARRIER SOLAR CELLS.

SRIVASTAVA, S. and others (Physics Group, Birla Institute of Tech. and Sc., Pilani, Rajasthan 333 031).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay.

Dec 1979. 430-5.

463. THEORETICAL CONSIDERATION OF CURVE FILL FACTOR IN SOLAR CELLS.

SUBRAHMANYAM, A. and others (Solid State Physics Laboratory, Lucknow Road, Delhi 110 007). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978. 474-7.

464. THEORETICAL METHOD FOR ESTIMATION OF POWER LOSS DUE TO MISMATCH IN SOLAR CELL I-V CHARACTERISTICS.

SRINIVASAMURTHY, N. and others (Power Systems, Ind. Space Res. Organisation, Satellite Centre, Peenya, Bangalore - 560 058).

Proc. National Solar Epercy Convention

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.440-4.

465. THEORY OF METAL DX IDE-SEM ICONDUCTOR SOLAR CELL.

SRIVASTAVI, G.P. and others.
Solid State Electronics, 22;1979;581-7.

466. THEORY OF TRANSIENT PHOTOVOLTAIC EFFECTS USED FOR MEASUREMENT OF LIFETIME OF CARRIERS IN SOLAR CELLS.

DHARIWAL, S.R. and others (Govt. College, Ajmer).
Solid-State Electronics.20,4; April 1977; 297-304.

467. TRANSPARENT CONDUCTING COATINGS

SHANTHI, E. and others (Dept. of Physics, Indian Institute of Technology, New Delhi 110 029).

Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2; 698.

468. TWO DIMENSIONAL ANALYSIS FOR RESPONSE OF A PHOTO DIODE ARRAY.

MUKHERJEE, M.K. and DAS, S.N. (Dept. of Electronics and Telecommunication Engg., Jadavpur Univ., Calcutta 700 032). Solid State Electronics.18.1975.716-8.

### 6.1 SILICON SOLAR CELLS.

469. CLIMATIC AND DURABILITY TESTS ON POLYCRYSTALLINE SILICON SOLAR CELLS.

RAMANATHAN, P.V.N. and others (Div. of Materials, National Physical Lab., New Delhi 110 012).
Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.278-82.

470. DESIGN AND DEVELOPMENT OF A 100 PEAK WATT PHOTOVOLTAIC CONCENTRATOR SYSTEM.

Central Electronics Ltd., Solar Cell Group, Industrial Area-4, Sahibabad - 201 005. Proc. National Solar Energy Convention: of Solar Energy Society of India. Stavmager. Occ., 1978.539-43.

### 6.1 SILICON SOLAR CELLS. (contd.)

471. DESIGN AND FABRICATION OF SILICON SOLAR CELLS FOR CONCENTRATED LIGHT.

BAWA, S.C. and others (Central Electronics Engg. Res. Institute, Pilani, Rajasthan). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2,709.

472. DEVELOPMENT OF SILICON SOLAR CELLS FOR CONCENTRATED SUNLIGHT.

JOSHI, S.P. and others (Solar photovoltaic project, Central Electronics Ltd., Industrial Area 4, Sahibabad 201 010.U.P.) Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.292-5.

473. DEVELOPMENT OF SPACE QUALITY SILICON SOLAR CELLS AT B.A.R.C.

GUPTA, M.K. and others (Reactor Control Div., Bhabha Atomic Res. Centre, Bombay). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhaunagar. Dec. 1978.436-9.

474. EFFECT OF ABRASIVE JET MACHINE
(AJM) THE EDGE ON THE PERFORMANCE
OF A POLYCRYSTALLINE SILICON SOLAR
CELL.

SINGH, S.N. and others (Materials Div., National Physical Lab., New Delhi). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.286-91.

475. EFFECT OF ANNEALING ON (I) LIFETIME, (II) RESISTIVITY AND (III) PHOTO-CONDUCTIVITY SOLAR GRADE POLY-S1.

JAIN, G.C. and others (Div. of Materials, National Physical Lab, New Delhi). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.257.01.

476. EFFECTS OF TEMPERATURE ON THE PERFORMANCE OF SILICON SOLAR CELLS

BAWA, S.C. and others (Central Electroni Engg. Res. Institute, Pilani, Rajasthan) Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcut 1976.75-6.

477. EFF ICIENCY OF CONVENTIONAL SILICON SOLAR CELLS.

. V. C

SINGAL, C.M. (Solar Cell Project, Centre Electronics Ltd., Sahibabad 201 005, U.P. Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2.766.

478. ENERGY BUDGET OF SINGLE CRYSTAL SILICON SOLAR CELLS WITH THE PRESE STATE-OF-ART.

BHASKARARAO, A. and NARAHARI, S. (Electronics Corporation of India Ltd., Hyderabad, A.P. 500 762).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.71-4.

479. ENHANCEMENT OF THE SHORT CIRCUIT CURRENT IN TEXTURIZED SILICON SOLAR CELLS.

MAHENDRA, K.K. (Ind. Space Res. Organisat Satellite Centre, Dept. of Space, A1-6 Peenya Industrial Estate, Peenya, Bangal 560 058) and others. Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.318-23.

480. EXPERIMENTAL AND THEORETICAL STUDY OF SILICON MOS SOLAR CELLS WITH DIFFERENT BARRIER METALS.

KAR, S. and others (Elect Engg. Dept. Indian Institute of Technology, Kanpur-208 016).

TEEE Photovoltaic Specialists Conference 13. Washington. June 1978;628-33.

# 5.1 SILICON SOLAR CELLS (contd.)

181. IMPROVEMENT IN POLYCRYSTALLINE SILICON SOLAR CELL PERFORMANCE FFICIENCY DUE TO EDGE ETCHING AND DUNCTION DEPTH OPTIMIZATION.

JAIN, S.K. and others (Materials Div., Vational Physical Lab., New Delhi).
Proc. National Solar Energy Convention:
Solar Energy Society of India.
Jombay. Dec 1979.273-7.

182. IND IUM-TIN-OXIDE THIN FILM COATINGS OF SILICON SOLAR CELLS.

JAIN, Vinod K. (Solid State Physics Lab., Lucknow Road, Delhi 110 007) and others. Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.308-13.

183. ION IMPLANTED SILICON SOLAR CELLS.

#AGH, A.G. and others.(Bhabha Atomic Res. Centre, Bombay 400 085). Proc. Nuclear Physics Solid State Physics Symp. Calcutta.1975.18c.605-8.

184. LOW COST ITO-SILICON SOLAR CELLS.

RAZA, Ahmar and others (Center of Inergy Studies and Dept. of Physics, Indian Institute of Technology, New Delhi 110 029). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.487-92.

485. LOW RESISTANCE OHMIC CONTACTS FOR SILICON SOLAR CELLS.

SINGHAL, G.K. (Solid State Physics Lab., Lucknow Road, Delhi 110 007) and others. Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.324-9. 486. METALLIC CONTACT THRO' CONDUCTING
AND POROUS ANTIREFLECTION COATING
FOR POLYCRYSTALLINE SILICON SOLAR CELLS.

ARORA, N.K. and PRASAD, Anantha. (Materials Div., National Physical Lab., New Delhi 110 O12). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec. 1979.262-6.

487. NEW FABRICATION PROCESS FOR SINGLE CRYSTAL SILICON SOLAR CELLS.

DUBEY, R.C. and others (Central Electronics Engg. Res. Institute, Pilani, Rajasthan). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol. 2;617.

488. NEW TECHNIQUE FOR FABRICATION OF PNN POLYCRYSTALLINE SILICON SOLAR CELLS BY SIMULTANEOUS DIFFUSION OF BORON AND PHOSPHOROUS INTO SILICON.

SINGH, S.N. and others (Div. of Materials, National Physical Lab., New Delhi 110 012) Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.267-72.

489. NOTE ON THE PERFORMANCE OF A SI SOLAR CELL UNDER PARTIAL ILLUMINATION.

MUKHERJEE, S. (Dept. of Electronics and Elect. Communication Engg., Indian Institute of Technology, Kharagpur 721 302, W.B.).

Proc. National Solar Energy Conventions of Solar Energy Society of India. Calcutta.
1976.79-82.

490. PERFORMANCE CHARACTERISTICS OF A SOLAR BATTERY CONCENTRATOR SYSTEM USING S1 AND CdS CELLS.

DEB, S. (Dept. of Electronics and Telecommunication Engg., Jadavpur Univ., Calcutta 700 032.) and SAHA,H.(Dept. of Physics, Univ. of Kalyani, Kalyani, Nadia, W.8.)
Proc. National Solar Energy Conventions of Solar Energy

### 6.1 SILICON SOLAR CELLS (contd.)

491. POSSIBILITY OF PRODUCTION OF LOW COST SOLAR GRADE SILICON BY TRICHLOROSILANE PROCESS.

PRASAD, N.S.K. (Ore Extraction Section, Bhabha Atomic Res. Centre, Trombay, Bombay 400 085). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2;772.

492. PROBLEMS IN THE TEXTURIZATION OF SILICON SLICES FOR THE FABRICATION OF THE HIGH EFFICIENCY SOLAR CELLS.

NARULA, R.C. (Solid State Physics Lab., Lucknow Road, Delhi 110 007) and MAHENDRA, K. K. (Ind. Space Res. Organisation, Satellite Centre, Bangalore). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay.Dec.1979. 314-7.

493. PRODUCTION AND PURIFICATION OF POLYCRYSTALLINE SILICON BY MAGNESIUM REDUCTION OF RICE HUSK ASH.

ACHARYA, H.N. and others (Indian Institute of Technology, Kharagpur). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.296-300.

494. PRODUCTION OF HIGH PURITY SILICON FROM RICE HUSK FOR USE IN SOLAR CELLS.

SINGH, Rajvir and DHINDAW, B.K. (Rice Process Engg. Centre and Materials Sc. Centre, Indian Institute of Technology, Kharagpur).
Sun mankind's future source of energy: Pioc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2,776.

A95. REPORT ON THE ELECTRON IRRADIATION CARRIED OUT ON SILICON SOLAR CELLS.

BHADURI, A. (Solid State Physics Lab., Lucknow Road, Delhi 110 007). Solar Cell Tech. Report No.9. SPL, Oct 1976. 496. REVIEW OF THE WORK DONE AT CE.F.R.I.
ON THE DEVELOPMENT OF SINGLE CRYSTAL
SILICON SOLAR CELLS FOR USE WITH CONCENTRY
LIGHT.

MARATHE, B. R. and others (Central Electron Engg. Rea. Institute, Pilani). Proc. National Solar Energy Conventions of Solar Energy Society of India. Bhavnage Dec. 1978.534-8.

497. SEMI-AUTOMATIC SUN TRACKING SYSTEM FOR CONCENTRATED SILICON SOLAR CELLS.

BAWA, S.C. and others (Central Electronics Engg. Res. Institute, Pilani).
Sun mankind's future source of energy: Prot of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2.1349.

498. SOME EXPERIMENTAL STUDIES ON THE TECHNICAL DEVELOPMENTS OF LOW COST SILICON SOLAR CELLS.

Central Electronics Ltd., Solar Cell Group, Sahibabad 201 005. Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.709-15.

499. THEORETICAL STUDY ON THE BEHAVIOUR OF METAL p-n-Si SCHOTTKY BARRIER SOLAR CELL.

KRISHNA MURTHY, G.S.R. and SINHA, A.P.B. (Solid State Materials Group, National Chemical Lab., Poona 411 008).
Pramana, 13,1; July 1979;39-45.

500. TRENDS IN SILICON SOLAR-PHOTOVOLTAIC CELLS.

JAIN, G.C. (National Physical Lab., Hillside Road, New Delhi). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society, Congress, New Delhi, Jan 1978. Vol.2;592.

# 6.2 CADMIUM SOLAR CELLS.

501. ANNEALING AND DEGRADATION STUDIES OF CERAMIC Cds SOLAR CELLS.

SAHA,H. (R & D Centre, Chloride India Ltd., Calcutta 700 059) and others. Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.493-500.

502. BACK ILLUM INATED HIGH EFF ICIENCY THIN FILM Cu2S/CdS SOLAR CELLS.

BHAT, P.K. and others. (Physics Dept., Indian Institute of Technology, New Delhi 110 029). Solar Energy Materials.1,3-4; March-May 1979;215-19.

503. CdS PHOTO-CELLS.

GOGNA, Pawan Kumer. (Centre of Energy Studies, Indian Institute of Technology, New Delhi 110 029). Science today. Nov. 1978.

504. CADMIUM TELLURIDE SOLAR CELLS.

JAIN, Vinod K. (Solid State Physics Lab., Lucknow Road, Delhi 110 007) and KULSHRESHTHA, Arun P. (Ind. Space Res. Organisation, Satellite Centre, Dept. of Space, Peenya 562 140, Bangalore). Proc. Nat.onal Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.451-61.

505. CERAMIC CADMIUM-ZINC SULPHIDE SOLAR CELL.

DWIVEDI, R. and others (Microelectronics and Devices Lab., Dept. of Elect. Engg. Institute of Technology, Banaras Hindu Univ., Varanasi 221 GO5).

Proc. National Solar Energy Convention: of Solar Energy Society of India.

Bombay. Dec 1979. 364-6.

506. DIAGNOSTIC STUDY ON THE POLYCRYSTALLINE
NATURE AND ITS' RELATIONSHIP WITH
THE YIELD OF Cds SOLAR CELLS.

MUKHERJEE, M.K. and DAS, A.K. (Dept. of Electronics and Telecommunication Engg., Jadavpur Univ., Calcutta 700 032). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2;760.

507. ELECTRICAL BREAKDOWN IN CU-DOPED CERAMIC Cds PHOTOCELL.

BASU, Paritosh (Dept. of Physics, Univ. of Kalyani, Kalyani 741 235. W.8.). Int. Symposium on Solid State Physics. Calcutta. Jan 1977.

508. ELECTROCHEMICAL SOLAR CELLS BASED ON CdSe ELECTRODES.

ARUCHAMY, A. and others. (Materials Sc. Res. Centre, Indian Institute of Technology, Madras 600 036).

Proc. National Solar Energy Convention: of Solar Energy Society of India.

Bombay. Dec 1979.396-400.

509. EVAPORATED Cds FILM BASED HETEROJUNCTIC SOLAR CELLS.

CHOPRA, K.L. and others. (Dept. of Physics, Indian Institute of Technology, New Delhi - 110 029).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.88-90.

510. FABRICATION OF THIN FILM CU.S/CdS SOLAR CELLS BY A NOVEL EVAPORATION TECHNIQUE.

DAS, S.R. and others (Indian Institute of Technology, New Delhi 110 029). Solid State Communications.21,1; Jan 1977; 49-51.

### 6.2 CADMIUM SOLAR CELLS (contd.)

511. FAILURE ANALYSIS OF CADMIUM SULPHIDE SOLAR CELLS.

PILLAI, N.R. and MUKHERJEE, M.K. (Vikram Sarabhai Space Centre, Ind. Space Res. Organisation, Trivandrum).

Proc. National Solar Energy Conversion:
of Solar Energy Society of India.
Calcutta.1976.94-5.

512. FIELD DEPENDENT GRAIN BOUNDARY DIFFUSION IN POLYCRYSTALLINE CADMIUM SULPHIDE SOLAR CELLS.

MUKHOPADHYAY, K. and others (Dept. of Physics, Univ. of Kalyani, Kalyani, West Bengal 741 235).

Proc. National Solar Energy Convention: of Solar Energy Society of India.
Bombay. Dec 1979.359-63.

513. FORMATION AND ELECTRICAL AND OPTICAL BEHAVIOUR OF CUPROUS SULPHIDE LAYERS IN CdS SOLAR CELLS.

SHIDE, V.G. and others(National Physical Lab., Hillside Road, New Delhi 110 012). Proc. National Soler Energy Convention: of Soler Energy Society of India. Bombay. Dec 1979.337-42.

514. INVESTIGATION OF THE NON-UNIFORM THICKNESS OF THE SKIN REGION OF A CdS SOLAR CELL.

MUKHERJEE, M.K. and DAS, S.N. (Dept. of Electronics and Telecommunication Engg., Jadavpur Univ., Calcutta 700 032). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.84-7.

515. ON OPTIMIZATION OF PERFORMANCE OF A Cu S-CdS HETERODUNCTION SOLAR CELL THROUGH HEAT TREATMENT.

DEB, S.(Dept. of Electronics and Telecommunication Engg., Jadavpur Univ., Calcutta 700 032) and SAHA, H. (R & D Centre, Chloride India Ltd., Calcutta-59). Photovoltaic Solar Energy Conference. Luxembourg, Sept. 1977;557-569.

516. PHOTOVOLTAGE IN THIN CADMIUM SULPHIDE FILM GROWN UNDER LONGITUDINAL ELECTRIC FIELD.

DWIVEDI, R. (Dept. of Electronics Engg., Institute of Technology, Banaras Hindu Univ., Varanasi 221 005,U.P.).
J. of Electronics Engg.12,1978;395-400.

517. POTENTIALITIES OF CADMIUM SULPHIDE SOLAR CELLS.

SURYANARAYANA, C.V. (Central Electrochemica Res. Institute, Karaikudi — 6) Proc. 7th meeting of all India solar energy working group and conf. on the utilization of Solar Energy, Ludhiana. Nov 1975.39—43.

518. PREPARATION AND ANALYSIS OF COPPER SULPHIDE LAYER OF CdS/Cu\_S SOLAR CELL.

SAHA, H. (Dept. of Physics, Univ. of Kalyani, Kalyani, W.B. 741 235)
Proc. National Solar Energy Convention: of Solar Energy Society of India.
Bombav. Dec. 1979. 354-8.

519. PREPARATION AND CHARACTERIZATION OF POLYCRYSTALLINE n-CdSe PHOTOELECTRODE

BANDYOPADHYAY, T.K. and others (Dept. of Chemistry, Univ. of Kalyani, Kalyani 741 235 Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.40145.

# 6.2 CADMIUM SOLAR CELLS (contd.)

520. ROLE OF THE DIODE EXPONENTAL FACTOR IN Cds Solar Cells.

SAHA, H. (R & D Centre, Chloride India Ltd., Calcutta-59) and others. Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2; 689.

\$21. SINTERED CdS PHOTOVOLTAIC CELL.

DWIVEDI, R. (Dept. of Electronics Engg., Institute of Technology, Banaras Hindu Univ., Varanasi 221 005,U.P.). J. of Institution of Electronics and Telecommunication Engineers.25,3; March 1979; 70-72.

522. SINTERED TYPE CADMIUM—SULPHIDE— THALLOUS SULPHIDE HETEROJUNCTION PHOTOVOLTAIC CELLS.

CHOCKALINGAM, M.J. and others (Central Electrochemical Res. Institute, Karaikudi 623 006. Tamil Nadu). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979. 376-8.

523. SOLAR CELL OF CADMIUM SULPHIDE GROWN UNDER LONGITUDINAL ELECTRIC FIELD.

DWIVEDI, R.and others (Microelectronics and Devices Lab., Dept. of Electronics Engg., Institute of Technology, Banaras Hindu Univ., Varanasi 221 805).

Proc. National Solar Energy Convention: of Solar Energy Society of India.
Bombay. Dec 1979.372-5.

524. SOME RESULTS ON THE FABRICATION OF Cd5 THIN FILM SOLAR CELLS.

MUKHERJEE, D. and others (Dept. of Electronics and Telecommunication Engg., Jadavpur Univ., Calcutta 700 032).

Proc. National Solar Energy Convention: of Solar Energy Society of India.

Bombay. Dec 1979.349-53.

525. SOME STUDIES ON CERAMIC CADMIUM SULPHIDE SOLAR CELL.

DWIVEDI, R. and others (Microelectronics and Devices Leb., Dept. of Electronics Engg., Institute of Technology, Banaras Hindu Univ., Varanasi 221 005).

Proc. National Solar Energy Conventions of Solar Energy Society of India.
Bombay. Dec 1979.367-71.

526. SPRAY DEPOSITED Cd1 Zn s FILMS FOR LOW COST SOLAR CELLS.

AGNIHOTRI, O.P. and GUPTA, B.K. (Centre of Energy Studies and Physics Dept., Indian Institute of Technology, New Delhi 110 029).

IEEE PHOTOVOLTAIC SPECIALIASTS Conference.
13. Washington, D.C. 1978.195-199.

527. SPRAYED CdS THIN FILM SOLAR CELLS.

CHOPRA, K.L. and others (Dept. of Physics, Indian Institute of Technology, New Delhi). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.90-3.

528. SPRAYED Cds THIN FILMS FOR Cds/Cu2s HETEROJUNCTION SOLAR CELLS.

BANERJEE, A. and others (Dept. of Physics, Indian Institute of Technology, Delhi, New Delhi 110 029).

Sun mankind's future source of energy? Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2; 675.

529. STUDIES ON CERAMIC CdS-Cu<sub>2</sub>S SOLAR CELLS.

BASU, Paritosh. (Dept. of Physics, Univ. of Kalyani, Kalyani 741 235. W.B.).
Int. Symposium on Solid State Physics.
Calcutta . Jan 1977.

### 6.2 CADMIUM SOLAR CELLS(contd.)

530. STUDIES ON POLYCRYSTALLINE CADMIUM SULPHIDE AND SCHOTTKY BARRIER SOLAR CELLS. (Ph.D. THESIS).

BASU, Paritosh. (Dept. of Physics, Univ. of Kalyani, Kalyani, W.8.741 235) 1979.

531. STUDY ON THE PERFORMANCE OF A Cu<sub>2</sub>S-CdS HETEROJUNCTION SOLAR CELL.

DE8, S. (Dept. of Electronics and Telecommunication Engg., Jadav pur Univ., Celcutta - 32) and SAMA, H.(Dept. of Physics, Kalyani Univ., Nadia, W.B.) Proc. 7th meeting of All India Solar Energy Working Group and conf. on utilization of solar energy. Ludhiana, Nov. 1975.50-5.

532. TECHNOLOGY OF THIN FILM CdS-Cu<sub>2</sub>S PHOTOVOLTAIC CELLS.

BHIDE, V.G. and others (National Physical Lab., Hillside Road, New Delhi 110 012).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec. 1979.343-8.

533. TRAP INDUCED PHOTOVOLTAGE IN THIN FILMS OF GOLD-CADMIUM SULPHIDE INDIUM DIODES.

SRIVASTAVA, S.K. and others. (Dept. of Electronics Engg., Banaras Hindu Univ. Varanasi, U.P.)
Proc. National Solar Energy Convention of Solar Energy Society of India. Calcutta.1976.120-1.

534. TWO-DIMENSIONAL ANALYSIS FOR CU/ SUB X/S-CdS SOLAR CELLS WITH NONUNIFORM SKIN REGION.

MUKHERJEE, M.K. and others (Jadavpur Univ., Calcutta).

### 6.3 GALLIUM SOLAR CELLS

535. BUILT-IN ELECTRIC FIELD IN THE SKIN REGION AND THE PERFORMANCE OF A GRAS SOLAR CELL.

DEB, S.and SAHA, H. (Jadavpur Univ., Calcutta).
Energy Conversion.15,1-2:1975:71-79.

536. BUILT-IN FIELD AND THE REALIZATION
OF A GRAS SOLAR CELL HAVING
RELATIVELY THICK SKIN LAYER AND GOOD
EFFICIENCY.

DEB, S.(Jadavpur Univ., Calcutta).
Proc. Int. Solar Energy Congress and
Exposition, Los Angeles, California.1975.

537. GaAs ELECTROLYTE PHOTOVOLTAIC CELLS.

SENGUPTA, U.and others (Indian Institute of Technology, Kharagpur 721 302). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.518-20.

538. GaAs MOS SOLAR CELLS.

LAHIRI,R. and others (Central Electronics Lt Sahibabad- 201 005)
Conf. on GaAs material and its devices.
in S.S.P.L., Delhi, March 1978.

### 7 POWER GENERATION

539. DESIGN AND PERFORMANCE OF 1/4
H.P. SOLAR POWER UNIT.

MANNAN, K.D. and LAL, Amrit (Dept. of Mech. Engg., Punjab Agril. Univ. Ludhiana).

Sun mankind's future source of energy? Proc. of the Int. Solar Energy Society Congress, New Delhi, "Jan 1978.Vol.2,1728-32.

### POWER GENERATION (contd.)

40. DEVELOPMENT OF A 5KW SOLAR POWER UNIT.

SINGH, Kulwant. (Bharat Heavy Electricals td., R & D Unit, 111 Serojini Devi Road, Secunderabed 500 003)
Proc. of 7th meeting of All India Solar Inergy. Ludhians. Nov 1975. 106-12.

541. DEVELOPMENT OF SMALL SOLAR POWER PLANTS FOR RURAL AREAS IN INDIA.

SURI, R.K. (Non-conventional Energy Sources Corporate R & D, Bharat Heavy [lectricals Ltd., New Delhi 110 008). and others.

Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2.

542. ECONOMICS OF SMALL SOLAR POWER PLANTS.

JAGADISH, B.S. (Dept. of Mech. Engg., Indian Institute of Technology, Bombay).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.180-5.

543. ELECTRICITY FROM THE SUN.

SOOTHA, C.D. (National Physical Lab., New Delhi). Science Today. April 1975.44-6.

<u>S44.</u> FEASIBILITY OF RUNNING A LARGE SOLAR POWER PLANT USING WATER LENSES.

AGRAWAL, H.C. and SANDHU, Baljit Singh. (Dept of Mech. Engg., Indian Institute of Technology, Kanpur208 016). Proc. of the 7th meeting of All India Solar Energy Working Group and conf. on utilization of Solar Energy. Ludhiana. Nov 1975.106-12.

545. FEASIBILITY STUDY OF A LARGE SCALE SOLAR POWER GENERATION SYSTEM
SUITABLE FOR THE ARID AND SEMI-ARID ZONES.

RAO, D.P. and others (Dept. of Chem. Engg. Indian Institute of Technology, Kanpur 208 016).
1979 Int. Congress Joint meeting with the American Section of Solar Energy Society. Atlanta, Georgia.1979.

546. MECHANICAL ENERGY STORAGE SYSTEM FOR A 10 KWE SOLAR POWER PACK.

MAGAL, B.S. and JAIN, S.V. (Dept. of Mach. Engg., Indian Institute of Technology, Bombay 400 076).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.1; 574.

547. POWER PLANT SYSTEMS BASED ON SOLAR ENERGY.

DIWAKARAN, C.P. (P.W.D. Electrical Wing, Palghat, Kerala 678 001).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2.
1777-8.

548. PRIME MOVER FOR A SOLAR POWER PLANT DESIGN, FABRICATION AND TESTING.
(M. TECH. DISSERTATION).

JAIN, S.C. (Dept. of Mech. Engg., Samrat Ashok Tech. Institute, Vidisha, M.P.). Indian Institute of Technology, Bombay.1977. Also, in Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.166-70.

549. SELECTION OF WORKING FLUIDS FOR LOW TEMPERATURE SOLAR THERMAL POWER CYCLES.

JAGANMOHAN, A. and KANDLIKAR, S.G. (Mech. Engg. Dept., Indian Institute of Technology, Bombay 400 076). Proc. National Solar Energy Conventions of Solar Energy Society of India. Bhavnagar. Dec 1978.159-65.

### 7 POWER GENERATION (contd.)

550. SOLAR ELECTRICITY FOR RURAL AREAS.

DAS, Bharati. Sunworld.2,4; Nov 1978;96-97.

551. SOLAR ELECTRIFICATION AND RURAL ELECTRIFICATION: A TECHNO-ECONOMIC REVIEW.

DESAI, B.G. (Jyoti Ltd., Baroda). Sun Mankind's future source of energy: Proc. of the International Solar Energy Society Congress, New Delhi, January 1978. Vol.1;211-13.

552. SOLAR SEA POWER PLANTS-PROSPECTS AND PROBLEMS.

DIXIT, D.K. and RAMAPRASAD, M.S. (Dept. of Mech. Engg., Visvesvaraya Regional College of Engg., Nagpur). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.230-2.

55% SOLAR POWER GENERATOR.

PAL, Ram Lakhan, (8-64, Shanti Nagar, Rourkes).
Proc. of the 7th meeting of All India Solar Energy Working Group and conf. on utilization of Solar Energy.Ludhiana. Nov. 1975.13-4.

554. 20 KW SOLAR DYNAMIC POWER SYSTEM -A FEASIBILITY STUDY.

KANAKA RAJU, 8. and others (Propulsion Engg. Div. Space and Tach. Centre, Trivandrum).

Proc. of 7th meeting of All Incia Soler Energy Working Group and conf. on utilization of Solar Energy. Ludhiana. Nov.1575.164-9.

### 7.1 MECHANICAL POWER

555. APPLICATION OF TURBOPACK IN SOLAR ENERGY SYSTEMS.

SANKARANARAYAN, S and PARANJPE, P.A. (Propulsion Div., National Aeronautical Lab., Bangalore 560 017).
Sun mankind's future source of energy:Prec. of the Int. Solar Energy Society Congress; New Delhi, Jan 1978. Vol.2.1733—8.

556. CYCLE OPTIMIZATION FOR A SOLAR TURBOPACK.

ISAAC, J.J. and PARANJPE, P.A. (Propulsion Div., National Aeronautical Lab., Bangalore).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2, 1712-8.

557. DEVELOPMENT OF 1 KW SOLAR POWERED RECIPROCATING ENGINE FOR RURAL APPLICATIONS.

GUPTA, R.K. and others (Solar Energy, R & 0 Jyoti Ltd., Baroda).
Sun mankind's future source of energy?
Proc. of the Int. Solar Energy Society
Congress, New Delhi, Jan 1978. Vol.2,2016-2

558. DEVELOPMENT OF 2 KW SOLAR POWERED STEAM ENGINE SYSTEM.

DESHPANDE, A.M. and others (Energy Div., Jyoti Ltd., Tandalja, Baroda).
Proc. National Solar Energy Convention:
of Solar Energy Society of India. Bombay.
Dec.1979.209-14.

559. DYNAMICS OF A PISTONLESS ENGINE CAPABLE OF UTILIZING SOLAR ENERGY.

BHARGAVA, S.C. and others (St. Stephens College, Univ. of Delhi, Delhi 110 007).
J. Applied Physics. 49,6% June 1978;3521-6.

## MECHANICAL POWER (contd.)

NEW DESIGN OF ORGANIC VAPOUR ENGINE FOR SOLAR SYSTEMS.

MGIRA, R.M. and others (Instrumentation Cell, upjab Agricultural University, Ludhiana, unjab).
Toc. National Solar Energy Convention: of lar Energy Society of India. Calcutta.

976.223-5.

POSSIBLE USE OF SOLAR ENERGY - A PISTONLESS ENGINE.

#ARGAVA, S.C.(Physics Dept., St. Stephens College, Univ. of Delhi, Delhi 110 007) and others.

Froc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.227-30.

562. RECIPROCATING DEVICE USING SOLAR ENERGY.

MACHDEVA, R.C. and others. (Dept. of Mech. Engg., Delhi College of Engg., Delhi - 110 006).

Sun mankind's future source of energy: Proc. of the Int. Soler Energy Society Congress, New Delhi, Jan 1978.Vol.2, 2122-4.

53. REFLECTOR CONCENTRATOR MODIFIED STERLING ENGINE UNIT AND AS QUA-AMMONIA GAS TURBINE UNIT FOR FARM OWER NEEDS.

URI, G.G. and others (Resources avelopment Institute, Bhopal, M.P.). In mankind's future source of energy: roc. of the Int. Solar Energy Society Ongress, New Delhi, Jan 1978.Vol.2, 784-9.

564. SOLAR ENERGY FRO TRACTORS.

SOM, P. and CHATTERJEE, J.S. (Civil Engg. Dept. and Electronics and Telecommunication Eng Dept., Jadavpur Univ., Calcutta 700 032).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.253-4.

565. SOLAR ENERGY OPERATED OSCILLATING HEAT ENGINE.

RAO, H. V. (Mech. Engg. Dept., Indian Institute of Technology, Kharagpur, W.B.). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.226-9.

566. SOLAR STIRLING ENGINE OF 2 TO 3 KW FOR SMALL FARMER.

KULKARNI, P.K. (Mohor, 64/17 Erandavane, Pune 411 004).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec 1979.215-20.

567. THERMODYNAMIC HYDROVIBRATOR: THE LIQUID PISTON STIRLING CYCLE PUMP.

SANYAL, Kalhan K. and others (Central Mech. Engg. Res. Institute, Durgapur 713 209).

Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2; 2125-8.

### 7.2 SOLAR PUMPS

568. B.I.T.S. SOLAR WATER PUMP AND RELATED SYSTEMS.

SAKSENA, R.K. and others (Birls Institute of Tech. and Sc., Pilani, Rajasthan 333 031).

Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol. 2, 1900-4.

569. DESIGN AND TESTING OF A SOLAR PUMP OF A NEW DESIGN. (M. TECH. DISSERTATION).

PAL, Shree. Indian Institute of Technology, Kenpur. 1977.

570. DEVELOPMENT AND PERFORMANCE OF SOLAR WATER PUMPS.

SOIN, R.S. (Hindustan Brown Boveri Ltd., Baroda 391 710) and others.
Sun mankind's future source of energy:
Proc. of the Int. Solar Energy Society
Congress, New Delhi, Jan 1978. Vol.2,
1917-23.

571. EXPERIMENTAL STUDY OF PHOTOVOLTAIC WATER PUMPING SYSTEM FOR RURAL INDIA.

SANGAL, S.K. and others.(Central Electronics Ltd., Sahibabad, U.P.).
IEEE Photovoltaic Specialists Conference.
13. Washington, D.C. June 1978.
1278-82.

572. IRRIGATION LIFT PUMP UTILIZING SOLAR ENERGY AND BIOMASS AND SOLAR POWERED LIFT PUMP.

MUTHUVEERAPPAN, V.R. and others (Dept. of Mech. Engg., Annamalai Univ., Annamalainagar 608 101).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol. 2, 1896-9.

573. LOW TEMPERATURE BELLOW ACTUATED SOLAR PUMP.

BHATTACHARYYA, T.K. and others (Central Mech. Engg. Res. Institute, Durgapur). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2, 2118-21.

574. NEW DESIGN OF A SOLAR PUMPING SYSTEM.

AGRAWAL, H.C. (Mech. Engg. Dept., Indian Institute of Technology, Kanpur) and PAL, Shree (Solar Energy Div., Jyoti Ltd., Baroda). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2, 1884-8.

575. PERFORMANCE PREDICTION MODEL FOR A

GUPTA, C.L. (Tata Energy Res. Institute, Field Res. Unit, Care Sri Aurobindo Ashr Pondicherry 605 002).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol.2, 1889-95.

576. REVIEW OF SOLAR PUMPS AND THEIR PRINCIPLES.

PAHOJA, M.H. (Centre of Energy Studies, Indian Institute of Technology, New Delh 110 029).

Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978. Vol. 2; 2129-33.

577. SEM I-PORTABLE SOLAR WATER PUMP.

GANGULY, K. (P.O. Rupnersingur Bazar, Village Rangamati, dt. Burdwan, W.B.).
Invention Intelligence. 14,3; March 1979; 100-2.

# 7.2 SOLAR PUMPS (contd.)

578. SIMULATION AND ECONOMIC FEASIBILITY STUDIES OF SOLAR WATER PUMP FOR LIFT IRRIGATION.

SUDHAKAR, K (R & D Dept., Hindustan Brown Boveri Ltd., Baroda) and RAO, D.P. (Dept. of Chem. Engg., Indian Institute of Technology, Kanpur 208016). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.644-56.

579. SOC IO-ECONOMIC ANALYSIS OF THE SOLAR WATER PUMP.

8HUSHAN, Bharat. Science Policy and Management of Research Unit, Administrative Staff College of India, Bella Vista, Hyderabad 500 475. 1976.23.

580. SOLAR ENERGY FOR IRRIGATION.

JADHAV, P. (Agril. Engg. Dept., Indian Institute of Technology, Kharagpur).
Harvester.17;1975;46-50.

581. SOLAR PHOTOVOLTAIC WATER PUMP FOR RURAL APPLICATION.

BHASKAR, E.V. (Central Electronics Ltd., Site 4, Industrial Area, Sahibabad 201 005.). Urja.3.1:1978:13-16.

582. SOLAR STEAM GENERATOR FOR SOLAR PUMP.

VARSHNEYA, M.C. and others (College of Agril. Engg., Mahatma Phule Krishi Vidyapeeth, Rahuri, Ahmednagar, Maharashtra.)
Invention Intelligence.14,4;
April 1979;139-142.

583. SOLAR WATER PUMP.

RAO, D.P. (Dept. of Chem. Engg., Indian Institute of Technology, Kanpur 208 016) and others.

Sun mankind's future source of energy: Proc. of the Int. Soler Energy Society Congress, New Delhi, Jan 1978.Vol.2; 1905-16.

584. SOLAR WATER PUMP FOR LIFT IRRIGATION.

RAO, D.P. and RAO, K.S. (Birla Institute of Tech. and Sc., Pilani).
Solar Energy.18,5;1976;405-411.

585. STEAM OPERATED LIQUID PISTON PUMP (SOLP)

NARASIMHAN, V.R. and JAYARAMAN, S. (Central Power Res. Institute, Bangalore). Proc. National Solar Energy Conventions of Solar Energy Society of India. Bombay. Dec 1979.221-6.

586. THEORETICAL ANALYSIS AND EXPERIMENTAL PERFORMANCE OF A FLUIDYNE PUMP.

PAHOJA, M.H. (Indian Institute of Technolog Kharagpur -2). Proc. of Condensed Papers. 2nd Miemi Int. Conf. on Alternative Energy Sources. Miami Beach, Florida. Dec 1979.662-5.

- 8 PHOTOGALVANICS, THERMOELECTRIC CONVERSION, etc.
- 587. DIRECT PHOTOELECTROCHEMICAL CONVERSION AND STORAGE OF SOLAR ENERGY.

MOORTHY, P.N. and others. (Chemistry Div., Bhabha Atomic Res. Centre, Bombay 400 085. Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2.808-13

# B PHOTOGALVANICS, THERMOELECTRIC CONVERSION, ETC. (contd.)

588. INTERNATIONAL CONFERENCE ON THE PHOTOCHEMICAL CONVERSION AND STORAGE OF SOLAR ENERGY.

TARAFDAR, R.N. and others. University of Western Ontario.London, Ontario. Canada.1976.

589. PHOTOCHEMICAL AND PHOTOELECTROCHEMICAL ROUTES FOR SOLAR ENERGY CONVERSION:

MOORTHY, P.N. and others (Chemistry Div., Bhabha Atomic Res. Centre, Bombay 400 085). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1975.131-4.

590. PHOTOCHEMICAL CONVERSION AND STORAGE OF SOLAR ENERGY.

SAMANTA, U. and others (Jadavpur Univ., Calcutta).
Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.
1976.135-8.

591. PHOTOCHEMICAL ENERGY CONVERSION STUDIES IN SYSTEMS CONTAINING METHYLENE BLUE.

MURTHY, A.S.N. and REDDY, K.S. (Dept. of Chemistry, Indian Institute of Technology, New Delhi 110 029).
Int. J. Energy Research.3,3; July-Sept 1979; 205-10.

592. PHOTOGALVANIC CELLS USING METHYLENE

MURTHY, A.S.N. and REDDY, K.S. (Dept. of Chemistry, Indian Institute of Technology, New Delhi 110 029). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978. 47-55. 593. PLAUSIBLE SCHEME TO IMPROVE STABILITY, LIFE AND EFFICIENCY OF THE THERMOELECTRIC ENERGY CONVERTORS.

SAHA, A.R. (Dept. of Electronics and Telecommunication Engg., Jadavpur Univ., Calcutta 700 032).

Proc. National Solar Energy Convention: of Solar Energy Society of India.
Calcutta.1976.128-31.

594. SAUR VIDYUT KOSH-THE SOLAR CELL.

SHARON, M. and others (Dept. of Chemistry Univ. of Poona, Pune 411 007).
Sun mankind's future source of energy:
Proc. of the Int. Solar Energy Society
Congress, New Delhi, Jan 1978.Vol.2,814~

595. STUDIES ON PHOTOGALVANIC CELLS.

NARAYAN, R. and SUBRAHMANYAM, M. (Dept. of Chemistry, Indian Institute of Technology, Madras 600 036).

Proc. National Solar Energy Convention: of Solar Energy Society of India.

Bhavnager. Dec 1978.56-9.

596. STUDIES ON RIBOFLAVIN-EDTA PHOTOGAL

MURTHY, A.S.N. and others (Dept. of Chemistry, Indian Institute of Technology, New Delhi - 110 029). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec. 1979. 387-91.

597. THERMOPHOTOELECTROCHEMICAL CELLS FOR SOLAR ENERGY CONVERSION.

KAMAT, P.V. and others (Chemistry Div., Bhabha Atomic Res. Centre, Bombay 400 085) Solar Energy.20,2:1978:171-3.

# 8 PHOTOGALVANICS, THERMOELECTRIC CONVERSION. ETC. (contd.)

598. UTILISATION OF SOLAR ENERGY BY THERMOELECTRIC GENERATORS.

GOPINATHAN, K.K. and others (Central Electrochemical Res. Institute, Karaikudi-6) Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.126-8.

### 9 GENERAL AND MISCELLANEOUS

599. ALTERNATIVE ENERGY SOURCES IN INDIA.

MURTY, K.S. (Univ.Dept. of Geology, Law College Compound, Nagpur 440 001).

Proc. of Condensed Papers:2nd Miami
Int. Conf. on Alternative Energy Sources.
Miami Beach Florida. Dec.1979.474-6.

600. APPLICATION OF SOLAR ENERGY IN CONJUNCTION WITH MAGNETIZED WATER TO BOOST FOOD OUTPUT.

SRIVASTAVA, S.C. and others (M.M.M. Engg. College, Gorakhpur, U.P.)
Proc. National Solar Energy Convention: of Solar Energy Society of India.
Calcutta.1976.248-50.

601. AREAS FOR ACCELERATING SOLAR ENERGY UTILIZATION IN INDIA.

MATHUR, K.N. (National Physical Lab., New Delhi) and CHANDRA, Ashok (Central Building Res. Institute, Roorkee). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978, Vol. 2, 2163-4.

602. ASIAN WORKING GROUP MEETING ON SOLAR ENERGY NEW DELHI. INDIA. JAN 23-25,1978.

Unesco and others. 1978.

603. BHEL'S SOLAR ENERGY R & D PROGRAMME.

SHARAN, H.N. and SURI, R.K. (Bharat Heavy Electricals Ltd., Deendayal Res. Institute Building, New Delhi 110 055.)
Energy Management.3,2; April-June 1979;119-23

604. CAN WE USE SOLAR ENERGY?

Science Today.9,10;1975;30-31.

605. CHALLENGES IN THE CHANGING ENERGY SCENE.

BHOOPATKAR, N.R. (Technical Services, Ind. Oil Corporation Ltd., Western Region, Bombay 400 034). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.341-50.

606. CONCEPTUAL PLAN FOR A MODEL SOLAR ENERGY VILLAGE IN INDIA.

KASHKARI, Chaman. (Univ. of Akron, Akron Ohio, U.S.A.)
Proc. of National Solar Energy Convention: of Solar Energy Society of India.
Bhavnagar. Dec.1978.360-6.

607. DIRECT CONVERSION OF SOLAR ENERGY
TO H<sub>2</sub> FUEL THROUGH PHOTOELECTROLYSIS
OF WATER.

SASTRI,M.V.C. and SUBBARAO, G.V. (Materials Sc. Res. Center, Indian Institute of Technology, Madras). Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978.Vol.2,804.

608. ENERGY ALTERNATIVES.

ARAVAMUTHAN, V. (Central Electro-Chemical Res. Institute, Karaikudi - 623 006). Ind. Chem. J. 10,4;1975;13-22.

### 9 GENERAL AND MISCELLANEOUS (contd.)

609. ENERGY PLANTATION.

MAGAL, 8. S. (Dept. of Mech. Engg., Indian Institute of Technology, Bombay 400 076). Elect. India 16.10:1976:24-8.

610. ENERGY: RESOURCES, DEMAND AND CONSERVATION WITH SPECIAL REFERENCE TO INDIA.

KASHKARI, Chaman. New Delhi, Tata McGraw Hill.1975.

611. FATE OF SOLAR ENERGY IN PURE AND MIXED STANDS OF WHEAT.

DAS, L.K. and SAHAI, R. (Botany Dept., Gorakhpur Univ., Gorakhpur-273 001) Sc. and Culture. 42,7;1976;379-80.

612. FATE OF SOLAR ENERGY INCIDENT UPON THE DICHANTHIUM COMMUNITY AT UDDAIN.

MISRA, C.M. and MALL, L.P. (IGFRI, Jhansi - 1). Geobios. 2,1:1975:33-4.

613. GLOBAL SURVEY OF SOLAR ENERGY.

GOPALAKRISHNAN, N.K. (Tata Energy Res. Institute, Documentation Centre, Bombay House, 24 Homi Mody Street, Bombay 400 023). Urje.3,2; 1978;43-50.

614. HARNESSING OF SOLAR ENERGY - ITS PAST. PRESENT AND FUTURE.

BHAUMIK, P.K. (Birls Industria. and Technological Museum, Calcutts 700 019). Proc. National Solar Energy Conventions of Solar Energy Society of India. Calcutta.1976.23. 615. HARNESSING SOLAR ENERGY FOR RURAL DEVELOPMENT.

BARVE, K.M. (Soler Energy R&D, ESDD, Jyoti Ltd., Berode 390 003) Commerce.131,3358;1975;21-3.

616. HARNESSING THE ENERGY FROM THE SUN.

BALAKRISHNAN, M.R. (Reactor Engg. Div., Bhabha Atomic Res. Centre, Bombay 400 085 Ind. J. of Power and River Valley Development.27,5;1977;121-31.

617. HARVESTING SOLAR ENERGY USING BIOLOGICAL SYSTEMS.

MISHRA, R.K. (Dept. of Biophysics, All India Institute of Medical Sciences, New Delhi 110 016).
Sun mankind's future source of energy: Proc. of the Int. Solar Energy Society Congress, New Delhi, Jan 1978, Vol.2;822-3,

618. HARVESTING THE SUN.

MALHOTRA, Kulbir S. and ARORA, Subhash S. (Central Arid Zone Res. Institute, Jodhpur).
Urja. 6,9;Dec 15, 1979;226-9.

619. INDIAN ENERGY SOURCES IN 1980'S

CHATURVEDI, A.C. (Minor Irrigation Dept., Lucknow 226 001). Proc. of Condensed Papers: 2nd Miami Int. Conf. on Alternative Energy Sources. Miami Beach, Florida. Dec 1979;410.

620. INDIA'S NATIONAL SOLAR ENERGY
RESEARCH AND DEVELOPMENT PROGRAMME.

RAMCHANDRAN, A. (Dept. of Sc. and Tech., Govt. of India, New Delhi) and GURURAJA, J. (New Energy Sources, Dept. of Sc and Tech., Govt. of India, New Delhi).

Sun mankind's future source of energy:
Proc. of the Int. Solar Energy Society
Congress, New Delhi, Jan. 1978. Vol.1;44.

# 9 GENERAL AND MISCELLANEOUS (contd.)

621. INTEGRATED APPROACH FOR THE ENERGY INPUT OF RURAL INDIA.

pandit, K.R. and CHANDRAMOULI, R. 10th World Energy Conference, Istanbul, Turkey, Sept. 1977.

522. INTEGRATED RURAL ENERGY PLAN - A CASE STUDY OF A TYPICAL VILLAGE IN KUTCH DISTRICT OF GUJARAT STATE.

RAO, K.S. (Central Salt and Marine Chemicals Res. Institute, Bhavnagar) and others.

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.351-9.

623. LOOKING FOR A MODEST TECHNOLOGY FOR MODERATE SOLAR ENERGY COLLECTION FOR RURAL ENERGIZATION PROGRAMME OF INDIA.

SANDHU, Baljit Singh. (Mech. Engg. Dept., Punjab Agril. Univ., Ludhiana 141 004). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.420-5.

624. MEETING THE ENERGY NEEDS OF RURAL INDIA.

GHOSH, S.N. (Bureau of Petroleum and Chemical Studies, New Delhi). SKIP Newsletter. No.41. Dec 1977.1-15.

625. NON CONVENTIONAL ENERGY SOURCES.

OM PRAKASH. (Elect. Engg. Dept., Institute of Armament Tech., Pune 411 003) Elect. India.18,9; May 15, 1978.9-16.

626. ON THEORETICAL MAXIMUM FOR ENERGY FROM DIRECT AND DIFFUSE LIGHT.

JAGADISH, S.R. and KINI, K.A. (Central Fuel Res. Institute, Dhanbad). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.14-15.

627. PARAMETRIC STUDY OF SOLAR THERMAL POWER PLANT.

SAMUEL, Anand A. and others (Solar Energy Div., Energy Res. Centre, Indian Institute of Technology, Madras 600 036.)

Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar.
Dec 1978.171-9.

628. POTENTIALITIES OF SOLAR ENERGY.

UDAYKUMAR, H. and SUBRAMANIAN, C.K. (Physics Dept., Indian Institute of Sc., Bangalore 560 012). Elect. India.1977.17,2;1977;15-19.

629. PROCEED INGS NATIONAL SOLAR ENERGY CONVENTION 1976. JADAV PUR UNIV., CALCUTTA. NOV. 29,30- DEC 1, 1976.

DEB, S.and others. eds.
Solar Energy Society of India (Technology Bhavan, New Delhi).

630. PROCEEDINGS NATIONAL SOLAR ENERGY CONVENTION. 1978. CENTRAL SALE AND MARINE CHEMICALS RESEARCH INSTITUTE, BHAVNAGAR - DEC 20-22, 1978.

Soler Energy Society of India (Technology Bhaven, New Delhi).

### 9 CENERAL AND MISCELLANEOUS (contd.)

631. PROCEED INGS NATIONAL SOLAR ENERGY CONVENTION 1979. INDIAN INSTITUTE OF TECHNOLOGY., BOMBAY. DEC 13-15,1979.

Solar Energy Society of India (Technology Bhavan, New Delhi) and others.

632. PROGRAMME AND PROGRESS OF D.S.T. SPONSORED SOLAR PHOTOVOLTAIC WORK IN IDNIA.

VENKATESWARLU, U. (Central Electronics Ltd., 4, Industrial Area, Sahibabad, U.P. 201 005).

Proc. National Solar Energy Convention; of Solar Energy Society of India.
Bhavnagar. Dec 1978.427—32.

633. RELEVANCE OF SOLAR PHOTOVOLTAIC POWER SOURCES FOR INDIAN VILLAGES.

VENKATESWARLU, U. (Central Electronics Ltd., 4, Industrial Area, Sahibabad)., World Science News. 1978.

RENEWABLE ENERGY OPTIONS: WHAT COULD DEVELOPING COUNTRIES / EXPECT FROM THEM?

PARIKH, Jyoti K. (Energy Div., Planning Commission. New Delhi - 110 001) Energy. 4,5; Oct 1979;989-994.

635. REPORT FROM THE SOLAR ENERGY LABORATORY.

GUPTA, C.P. (Agril. Engg. Dept., Indian Institute of Technology, Kharagour -721 302). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.21-22. 636. SOLAR ELECTRIC POWER GENERATION.

SASTRY, L.B.K. and others. Elect. India.18,12;1978;5-12.

637. SOLAR ENERGY

MAYUR, Rashmi. (Urban Development Institute, Bombay). Bombay, Forum of Free Enterprise. 11.1978.

638. SOLAR ENERGY.

SINGH, Daljit. (Chem. Engg. Dept., Punjab Agril. Univ., Ludhiana 141 004). Chem. Engg. World. 13,1;1978;47-54.

639. SOLAR ENERGY - A NON POLLUTING SOURCE OF ENERGY.

DWIVEDI, R. (Dept. of Electronics Engg., Institute of Tech., Banaras Hindu Univ., Varanasi 221 005,U.P.)
4th National Convention on Environmental Engg., Varanasi. 1978.

640. SOLAR ENERGY - A SOFT LOOK.

BHATTACHARYA, P. Chem. Age of India.26,5; May 1975;353-351

641. SOLAR ENERGY APPLICATION IN INDIA:

GURURAJA, J. (New Energy Sources, Dept. of Science and Technology, Govt. of India, New Delhi). 7.(1976).

# GENERAL AND MISCELLANEOUS (contd.)

342. SOLAR ENERGY, CHALLENGES AND PERSPECTIVES IN INDIA.

AMCHANDRAN, A. (Council of Scientific and Industrial Res., New Delhi 110 001). Nect. India.17,22;1977;23-32. Iso, pubd in Bhagirath.25,2;1978;56-9.

id. SOLAR ENERGY CONVERSION THRO' PHASE TRANSFORMATIONS.

RIVASTAVA, R.C. (Birla Institute of ech. and Sc., Pilani) and others. int. J. Energy Res. 2,1;1978;43-46.

44. SOLAR ENERGY DEVELOPMENTS IN INDIA.

INGH, Daljit. (Chem. Engg. Dept., ollege of Agril. Engg., Punjab Agril. niv., Ludhiana). hem. Engg. World.11,5; May 1976. 3-6.

45. SOLAR ENERGY FOR HOME, FARM AND INDUSTRY.

HANMUGHAM, C.R. (Dept. of Agril. rocessing, College of Agril. Engg., amil Nadu Agril. Univ., Coimbatore 41 003)
ummer Institute in Energy Utilisation nd Waste Recycling. Coimbatore.
ay 1979.

46. SOLAR ENERGY FOR RURAL DEVELOPMENT.

AIN, B.C. (Energy Div., Jyoti Ltd., aroda).
Ommerce Annual No.1978. Vol-137.
03526.121-5.

647. SOLAR ENERGY FOR USE AS A SOURCE OF POWER.

RANGARAJAN, S.and others (Meteorological Office, Poona 411 005).

Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.24-9.

648. SOLAR ENERGY GENERATION.

CUPTA, M.S. and SRIRAMULU, V. (Solar Energy Div., Indian Institute of Technology, Madras 600 036).

Ind. Eastern Engineer 119 (Anniv. No.); 1977.107-108.

649. SOLAR ENERGY IN AGRICULTURE.

GARG, H.P. (Central Arid Zone Res. Institute Jodhpur). Ind. Farming.27.2:1977:21-22 and 39.

650. SOLAR ENERGY IN INDIA: RESEARCH, DEVCLOPMENT AND UTILIZATION.

GUPTA, C.L. (Tata Energy Res. Institute, Field Res. Unit, Sri Aurobindo Ashram, Pondicherry).
Asian Working Group Meeting on Solar Energy. New Delhi, India 23-25 Jan 1978; 46-63. (Revised version of the report presented at ESCAP Meeting March 1976).

651. SOLAR ENERGY IN INDIAN HOUSEHOLDS.

ANAND, Rabinder Kumari. Sunworld.2,4; Nov 1978;97-99.

652. SOLAR ENERGY IN THE YEAR 2000.

CHATURVEDI, A.C. (Irrigation Commission, U.P. Canal Colony, Lucknow 226 001).

Proc. National Solar Energy Conventions of Solar Energy Society of India. Calcutta. 1976.23.

### 9 GENERAL AND MISCELLANEOUS (contd.)

653. SOLAR ENERGY RESEARCH AND DEVELOPMENT : KEY-NOTE ADDRESS.

RAMCHANDRAN, A. (Dept. of Science and Technology, Govt. of India, New Delhi). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta. 1976.9-13.

654. SOLAR ENERGY R AND D AT ANNAMALAI.

MUTHUVEERAPPAN, V.R. (Annamalai Univ., Annamalainagar-608 101).
Urja.3.2:1978:34-7.

655. SOLAR ENERGY RESEARCH AT C.A.Z.R.I., JODHPUR: ACHIEVEMENTS AND FUTURE PLANS.

GARG, H.P. (Central Arid Zone Res. Institute, Jodhpur). Ann. Arid Zone. 15,3; 1976;228-46. (Also in Urja.1,2; Feb 1977;24-29.)

SOLAR ENERGY RESEARCH AT C.S.M.C.R.I., Bhavnagar.

COMKALE, S.D. and DATTA, R.L. (Central Salt and Marine Chemicals Res. Institute, Bhavnagar). Proc. National Solar Energy Convention: of Solar Energy Society of India. Dalcutte.1976.14-15.

657. SOLAR ENERGY SCENE IN INDIA.

MATHUR, S.S. (Solar Energy Res. Div., Indian Institute of Technology, New Delhi 110 029). Helios.4; Nov 1978;7-11.

656. SOLAR ENERGY TRAPPED BY WHEAT GENOTYPES.

TRIPATHI, J.S. (Crop Physiol. Div., UPLAS, Kanpur - 208 002).
Allahabad Farmer. 48,2319773119-20.

659. SOLAR ENERGY USES — STATUS AND POTENTIALS IN DEVELOPING COUNTRIES WITH SPECIAL REFERENCE TO INDIA.

DATTA, R.L. (Flat No.9, Building A-1, Bandana Cooperative Hsg. Society Ltd., Thana, Bombay 400 601). Urja. 2,3;Sept 1977:82-5.

660. SOLAR ENERGY UTILIZATION FOR ARID ZONE DEVELOPMENT.

MANN, H.S. (Central Arid Zone Res. Instit Jodhpur). Annals of Arid Zone.15,3;1976;219-27.

661. SOLAR ENERGY UTILIZATION FOR INDIA .
POTENTIAL, LIMITATIONS AND CHALLENGE

GARG, N.K. and SHIAM. Lal.(Central Buildin Res. Institute, Roorkes). Ind. Architect; Oct 1978;125-7.

662. SOLAR ENERGY UTILISATION FOR RURAL AREAS.

GARG, H.P. and RANI, Usha. (Centre of Energy Studies, Indian Institute of Technology, New Delhi).
Urja. VI,9; Dec 15,1979;239-46.

663. SOLAR ENERGY UTILIZATION IN INDIA AND ABROAD.

8HIDE, V.G. Seminar Proc: Industrial Application of Solar Energy. Madras. June 1975.

664. SOLAR POWER FOR INDIA.

GUPTA, C.L. (Tata Energy Res. Institute, Field Res. Institute, Pondicherry). Science Today.9,10;1975;32-43.

# 9 GENERAL AND MISCELLANEOUS (centd.)

665. SOME DATA COLLECTED BY EXPERIMENTS TO BE UTILISED FOR SOLAR ENERGY APPLICATION.

GHOSH, M. (Tata Iron and Steel Co. Ltd., 220 Outer Circle Road, Jemshedpur). Proc. National Solar Energy Convention: of Solar Energy Society of India. Calcutta.1976.44-8.

666. STATE OF SOLAR TECHNOLOGY RESEARCH FOR RURAL DEVELOPMENT.

GARG, H.P. (Solar Energy Study Section, Central Arid Zone Res. Institute, Jodhpur - 342 001). Bhagirath.25,2;1978;68-9.

667. STATUS OF SOLAR TECHNOLOGY.

SWAHADEVI, B. (Andhra Pradesh Industrial Tech. Consultancy Orgn. Ltd., Hyderabad). Elect. Indis.18,1;1978.15-22.

668. STORAGE OF SOLAR ENERGY AS HYDROGEN.

SASTRI, M.V.C. (Indian Institute of Technology, Madras 600 036). 50. (1978.)

669. SUBSTITUTION OF CONVENTIONAL ENERGY SOURCES BY SOLAR ENERGY.

MULLIEK, S.C. and GUPTA, M.O. Hyde1.21,2;1975;7-13.

670. SUN: A SOURCE OF ENERGY FOR RURAL INDIA.

KAPUR, J.C. (Kapur Soler Farms, New Delhi). Invention Intelligence.14,6; June 1979; 216-225. ASPECTS OF SOLAR ENERGY UTILIZATION IN RURAL AREAS.

RASTOGI, Suman B. (Delhi High Court, Hew Delhi). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bombay. Dec. 1979. 493-9.

672. TECHNOLOGICALLY APPROPRIATE ENERGY.

REDDY, T.A. and GUPTA, C.L. (Tata Energy Res. Institute, Field Research Unit, Sri. Aurobindo Ashrem, Pondicherry). SKIP Newsletter.No.41., Dec 1977.16-21.

673. TRENDS IN ENERGY CONSUMPTION.

TANDON, T.N. and others (M.M.M. Engg. College, Gorakhpur).
Proc. of the 7th meeting of All India Sel Energy Working Group and conf. on utilization of Selar Energy. Ludhians. Nov.1975.56-67.

674. TRENDS OF SOLAR PHOTOVOLTAICS IN INDIA AND ABROAD: KEY NOTE ADDRESS.

WENKATESWARLU, U. (Central Electronics Li Sehibebad.201 005). Proc. National Solar Energy Convention: Solar Energy Society of India. Bhavnagar. Dec 1978.602-5.

675. UTILIZATION OF SOLAR ENERGY.

GARG, H.P. and KRISHNAN, A. (Central Arid Zone Res. Institute, Jodhpur). Chem. Concepts. 2,9-10;1975.

## # GENERAL AND MISCELLANEOUS (contd.)

A76. UTILISATION OF SMALL SCALE SOLAR ENERGY FOR RURAL DEVELOPMENT - A STRATEGY.

PRAKASH, 8. (Birla Institute of Tech. and Sc., Pilani - 333 831).

Proc. National Solar Energy Convention: of Solar Energy Society of India.

Bhavnagar. Dec 1978.722-34.

677. VIABILITY OF SOLAR DEVICES FROM ENERGY POINT OF VIEW.

RAO, K.S. and DAGA, S.L. (Central Salt and Marine Chemicals Res. Institute, Bhavnagar — 2). Proc. National Solar Energy Convention: of Solar Energy Society of India. Bhavnagar. Dec 1978.392-8.

## AUTHOR INDEX

CHARYA, H.N. - 493
CHARYA, S.K. - 035
CARWAL, A.K. - 420
CARWALA, Amita. - 112,434
CARWALA, H.C. - 045,290,328,
544 & 574
CARWAL, K.N. - 006,241
CARWAL, R.C. - 031,037
CARWAL, R.C. - 269
CNIHOTRI, O.P. - 526
CMED, Syed Basheer. - 185
CAM, Anwar - 343
MBALAVANAN, G - 332
NAND, M.M.S. - 381, 417
NAND, Rabinder Kumari. - 651
NAND, Satya Prakash. - 184,329,
360,369 & 371

NSARI, J.S. - 143
RAVAMUTHAN, V. - 608
RNIKAR, H.J. - 311
RORA, C.P. - 201
RORA, N.K. - 486
RORA, Subhash S. - 618
RUCHAMY, A. - 508

ALAKRISHNAN, M.R. - 616 ALASUBRAMANIAN, V. - 103 ALIGA, B.V. - 066 ANDYOPADHYAY , T.K. - 519 IANERJEE. A. - 528 IANSAL, G.D. - 248 IANSAL, Pradeep - 049 IARVE, K.M. - 223,615 MSU, Paritosh. - 383,427,507 529 & 530 IASU, S.P. -040,139 HADURI, A. -396,495 HAPKAR, D.G. - 293 HARGAVA, S.C. - 559,561 HASKAR, E.V. - 429,445,452,481 HASKARARAD, A. - 478 3HAT, P.K. - 502 BHAT IA . A . K . - 344 HATNAGAR, P.K. - 388,390 9HATT, M.M. - 016 BHATTACHARJEE, K.P. - 249,257 BHATTACHARYA, K. - 382 BHATTACHARYA, P. - 640 BHATTACHARYA, 5.C. - 189

BHATTACHARYYA. T.K. - 007,348,573
BHAUMIK, B. - 391
BHAUMIK, P.K. - 614
BHAVE, S.S. - 129
BHIDE, V.G. - 085,107,418,
513,532 &663
BHOLA, Bhimsen. - 312
BHOOPATKAR, N.R. - 605
BHUSHAN, Bharat. - 308,359,579
BIST, B.M.S. - 450,451
BISWAS, D.K. - 060,353
BOKIL, K.K. - 272

CENTRAL ELECTRONICS LTD. - 470,498 CHACKO, Commen. - 004 CHAKRABORTY, P.K. - 345 CHANDRA, Ashok. - 166,177, 180.336 4 601 CHANDRA, M. - 003,008,013, 028,236 & 304 CHANDRA, Prakash. - 190 CHANDRA, Ramesh. - 202 CHANDRAMOULI, R. - 621 CHANDRAN, T.C. - 260,273 CHATTERJÉE, J.S. - 564 CHATTERJEE, K.C. - 449 CHATTOPADHYAY, S.N. - 012 CHATURVEDI, A.C. - 619, 652 CHAUDHURI, N. - 440 CHAUHAN, Rajinder Singh. - 105,121,126 151,288 & 301 CHAURASIA, P.B. Lal. - 187 CHEEMA, L.S.-044,074,097,102,115, 125,135,214 & 259 CHHABRA, A.K. - 165,366 CHOCKALINGAM, Mary Juliana. - 522 CHOPRA, K.L. - 173,509,527 CHOPRA. R.K. - 254

DAGA, S.L. - 054,104,677
DANDE, D.V. - 073
DAS, A.K. - 431,433,444,506
DAS, B.K. - 426
DAS, Bharati. - 550
DAS, L.K. - 611
DAS, R.K. - 327

DAS, S.N. - 468,514 DAS, S.R. - 456,510 DASGUPTA, Surajit. - 123 ØATTA, R.L. - 251,656,659 DAW, A.N. - 081 DE SARKAR, D. - 279 DE8, S. 384,407,408,419,490. 515,531,535,536 & 629 DESAI, B.G. - 551 DESHMUKH, S.T. - 375 DESHPANDE, A.M. - 558 DESIKAN, V. - 024 DHARAP, A.M. - 019 DHAR IWAL, S.R. - 388,392,393, 416,425,432, 435,439,459 &466 DHILLON, Gurbas Singh. - 214,233 DHINDAW, B.K. - 494 DIWAKARAN, C.P. - 547 DIXIT, D.K. - 093,095,375,552 DUBEY, R.C. - 487 DUTTA, S.K. - 267 DWIVEDI, R. - 505,516,521, 523,525 & 639

EAPEN, John T. - 116 ENGIRA, R.M. - 109,560

GANDH IDASAN, P. - 198,200,210,211, 212,213,218,219, 225 & 232 GANESAN, H.R. - 014,021,025 GANGULY, K. - 577 GARG, H.P.-053,062,080,106,132,192, 234,277,284,296,298,306, 314,316,324,325,337,358, 361,362,365,649,655,662 4675 GARG, N.K. - 285,295,661 GHOSH, M.K. - 307,310 GHOSH, M. - 665 GHOSH, S. - 228 GHOSH, S.B. - 204 GHOSH, S.N. - 624 GHULE, H.M. - 389 GIRI, N.K. - 223 GIRJAKHIA, G.S. - 108 GOGHARI, H.D. - 372,374 GUGNA, Pawan Kumar. - 173,176,503

GOMKALE, S.D. - 349,374,656 GOMKALE, S.K. - 321 GOPALAKRISHNAN, N. K. - 613 GOPINATHAN, K.K. - 598 GOSWAMI, N.L.-340 GOUDREDDY, B.S. - 009 GOYAL, I.C. - 051 GROVER, P.D. - 228 GUPTA, A. - 111,114,142 GUPTA, Aparna. - 110 GUPTA, B.D. - 217 GUPTA, B.K. - 163,167,169, 170,174 & 526 GUPTA, C.L. - 022,062,065,091, 243,575,650,664 & 67 GUPTA, C.P. - 041,264,354,355 & 63: GUPTA, J.P. - 178,216,254 GUPTA, K.C. - 100,147 GUPTA, M.C. - 197,209,210,211,212, 215,221,232,252 & 253 GUPTA, M.K. - 473 GUPTA, M.O. - 669 GUPTA, M.S. - 648 GUPTA, R.K. - 154,557 GUPTA, R.K. - 557 GUPTA, S.C. - 331,344 GUPTA, T.N. - 224 GUPTA, V.K. - 239,247,282,294 GUPTA, V.P. - 302 GUPTA, Y.P. - 230,364,378,379 GURURAJA, J. - 641

HANDA, S.K. - 064 HODA, M.M. - 319 HARKARE, W.P. - 377 HUSAIN, Bazmi R. - 442

IBRAMSHA, M. — 113 ILYAS, S.M. — 342 ISAAC, J.J. — 556 ISHWAR CHANDRA. — 423 ITTY, P.K. — 368 IYNKARAN, K. — 048,050,357

JADHAV, P. - 580

JAGADISH, B.S. - 070,073,077,542

JAGADISH, S.R. - 626

JAGANMOHAN, A. - 549

JAIN, A.K. - 278

JAIN, B.C. - 263,646

JAIN, G.C. - 186,426,475,500

JAIN, S.C. - 412,548

JAIN, S.K. - 481

JAIN, S.V. - 546

JAIN, Vinay K. - 412,423,436

JAIN, Vinod K. - 482,504

JAUHRI, S.M. - 243

JAYARAMAN, R. - 229

JAYARAMAN, R. - 229

JAYARAMAN, S. - 585

JAZAYERI NASERI, M.A. - 237

JOHRAY, A. 061,077

JOSHI, S.P. - 076,472

KAILA. S.K. - 285,291 KAMARAJ. G. - 367 KAMAT, P.V. - 597 KANAKARAJU, B. - 554 KANDLIKAR, Satish G. - 019,124,549 KANE, Vijay R. - 286 KAPUR, Jagdish Chandra. - 220,247,281, 670 KAR, S.-397,398,399,401,404,415, 414,443 & 480 KASHKARI, Cheman. - 606,610 KAUSHIK, S.C. - 049 KED IA, Y.P. - 270 KELKAR, R.R. - 015 KINI, K.A. - 626 KISHORE, V.V.N. - 208 KRISHNAMURTHY, G.S.R. - 499 KRISHNAN, A. - 001.675 KRISHNAPRASAD. K. - 143 KRISHNARAD, K. - 120,127 KULKARNI, P.K. - 055,318,566 KULSHRESHIHA, Arun P. - 447 KUMAR, Anil.- 289 KUMAR, Ashvini. - 258 KUMAR, J.- 207 KUMAR, Kamal. - 442 KUMAR, Ravindra. - 141 KUMAR, S. - 111 KUMARASWAMY, C. - 338 KURUP, G.T. - 342

LADSAONG IKAR, U.V. - 052 LAHIRI, R. - 400,402,538 LAKSHMANARAO, R.V. - 069 LAL, Amrit. - 539

MAGAL, B.S. - 546,609 MAHABALA, R.A. - 428,438,448,453 &460 MAHENDRA, K.K. - 405,479 MAHESHWARI, L.K. - 381,417 MALHOTRA, Ashok. - 059 MALHOTRA, Kulbir S. - 618 MALL, L.P. - 612 MANI, Anna. - 004,017,023,026 & 027 MANN, H.S. - 298,365,660 MANNAN, K.D. - 068,074,096,097,102, 109,119,125,138,168, 238,255,259 & 539 MANOHAR REDDY, J. - 261 MARATHE, B.R. - 424,496 MARATHE, C.R. - 149,346 MATHER, G.C. - 292 MATHUR, K.N. - 601 MATHUR, S.S. - 043,244,657 MAYUR, Rashmi. - 637 MAZUMDAR, S.K. - 007,348 MIRCHANDANI, A.T. - 071 MISHRA, P. - 334 MISHRA, R.K. - 617 MISRA, C.M.-612 MISRA, L.N. - 035 MITAL, S.C. - 276,411 MITRA, R.N. - 081 MITRA, Shashanka S. - 385 MODI, Vijay. - 010,020 MOHAN, Dinesh. - 305 MOORTHY, P.N. - 457,587,589 MUKHERJEE, D. - 524 MUKHERJEE, M.K. - 422,433,468,506, 534 & 514 MUKHERJEE. S. - 489 MUKHOPADHYAY, K. - 512 MUKHOPADHYAY, P. - 409 MULLICK, 5.C. - 136,144,222,669 MURL IDHAR. - 130 MURTHY, A.S.N.- 591,592,596 MURTHY, B.S. - 454 MURTHY, K.S. - 599

MUTHUVEERAPPAN, V.R. - 048,050,063,275, 326,335,347,357, 367,572 & 654

MYLES, A.S. - 137,327

PRASAD, N.S.K. - 491
PRASADARAD, C.V. - 194
PURI, G.G. - 563
PURI, J.S. - 166

NAGAR, V.K. — 182 NAGASUBRAMANIA, G. — 394 NAHAR, N.M. — 032,058,080 NAIR, P. Redhakrishnan. — 005 NANDA, Santosh K. — 101,136,144 NARAHARI, S. — 478 NARASIMHAN, V.R. — 585 NARAYAN, R. — 595 NARESH KUMAR, U. — 363 NARULA, R.C. — 492 NATARAJAN, A. — 175 NAYAK, J.K. — 088, 196 NIGAGUNA, B.T. — 036

OM PRAKASH .- 625

PAHOJA, M.H. - 101,576,586 PAL, Ram Lakhan. - 553 PAL. Shree - 569.574 PANDE, P.C. - 056,192,341 PANDEY, M.M. - 264 PANDIT, K.R. - 621 PANDYA, Arvind. - 265 PANDYA. U.K. - 280 PANICKER, M.P.R. - 406,446 PARANJPE, P.A. - 555,556 PAROHASARADHI, T.V. - 153 PARIKH, Jyoti K. - 634 PARIKH, Mohan. - 309,322 PARIKH, Rahul. - 309 PATEL, J.S. - 191 PATEL, Satish. - 091 PATTANAYAK, 5- 330 PAUL, Dilip K. - 385 PILLAI, N.R. - 422,430,511 PILLAI, P.K. C .- 031,037,183 PRADHAN, T.D. - 015 PRAKASH, B. - 676 PRAKASH, Rajendra - 034,313 PRASAD, Anantha. - 486 PRASAD, G.S.S. - 162

RAHALKAR, C.G. - 030 RAJAGOPALAN, Indira .- 171 RAJAM, K.S. -164 RAJAN, S.T. - 370 RAJENDRA PRAKASH .- 250 RAJIVA - 323 RAJPUT. R.K. - 315 RAMACHANDRAN, P.N. - 373 RAMAKRISHNA, M. - 227 RAMAKRISHNARAO, M. 153,179,181 RAMANATHAN, P.V.N. - 469 RAMAPRASAD, M.S. - 552 RAMCHANDRAN, A - 620,642,653 RAMPRAKASH, Y. - 403 RANGARAJAN, S. - 024,029,030,647 RANI, Usha. - 662 RAO, D.P. - 545,578,583,584 RAO, H.V. 565 RAD, K.S. - 272,584,622,677 RAD. M.V.N.. - 178 RAO, Prabhakar P. - 090 RAD. S.S. - 217 RASTOGI, Suman B. - 671 RASTOGI, S.C. - 413,421 RATNAM. 8.P. - 009 RAV INDRA, N.M.-455, 461 RAZA, Ahmar. - 484 REDDY, K.S. - 591, 592 REDDY, T.A. - 087,672

SABBERWAL, S.P. - 043
SACHDEVA, R.C. - 562
SAGHAL, P.N. - 098
SAHA, A.R. - 593
SAHA, H. - 188,395,419,501,
518,520,531 & 535
SAHA, M. - 410
SAHAI, R. - 611
SAHU, S. - 250
SAINI, J.S. - 034,041,235
SAKSENA, B.K. - 568
SALARIYA, K.S. - 128,150,320
SAMANTA, U. - 590
SAMUEL, Anand A. - 118,627

SANDHU. Ballit Singh .- 121,126,157,353, 544 & 623 SANGAL. S.K. - 571 SANKARANFRAYAN, S. - 555 SANYAL. Kalhan K. - 567 SARATHBABU, N. - 203 SASTRI, M.V.C. - 394,607,668 SASTRY, L.B.K. - 636 SATHYANARAYAN, R.G. - 042 SATHYANARAYANA, G. - 071 SATYAMURTY, V.V. - 082 SAVARIRAJ, G.A. - 386 SAXENA, B.K. - 248 SAXENA, P.K. - 183 SEENIRAJ, V. - 193 SEETHARAMAN, V. - 409 SEETHARAMU. K.N. - 066 SENGUPTA, U. - 537 SETH. A.K. - 018 SETH, B.M. - 432 SHAH, B.M. - 349 SHAH, P. - 380 SHAH, R.K. - 045 SHAH, R.K. - 290 SHANMUGHAN, C.R. - 350,645 SHANTHI, E. - 467 SHARAN, H.N. - 039,603 SHARAN, R. - 391, 402. SHARMA, A.K. - 172 SHARMA, Jitendra. - 262 SHARMA, S.K. - 195 SHARON, M. - 594

SHARMA, Sitendra. - 202 SHARMA, S.K. - 195 SHARON, M. - 594 SHENDY, S.U. - 036 SHIAM LAL - 661 SHIL, S.K. - 133 SHIWALKAR, B.D. 094 SINGAL, C.M. - 133,477 SINGH, Balwant. - 356 SINGH, Bhupinder. - 313 SINGH, Daljit. - 230,302,364,378, 379,638 & 644

SINGH, Deep Narayan. 297
SINGH, Kamaljit. 119,134,168
SINGH, Kulwant. 540
SINGH, Mangal. 128,150,320
SINGH, Padam. 079,086
SINGH, Parampal. 2044,046,047

SINGH, Parampal. - 044,046,047, 078,115,135 & 237

SINGH, R. - 098
SINGH, R.N. - 099,117,155,156
SINGH, Rajvir. - 494
SINGH, S.N. - 474,488
SINGH, Y. - 335,340,352
SINGHAL, G.K. - 485
SINGHAL, O.P. - 299,354,355
SINHA, A.P.B. - 499
SITHARAMARAO, T.L. - 278
SODHA, M.S. - 018,038,083,089,
092,131,140,245,
246,256,287 & 420

SOIN, R.S. - 072,303,570 SOLAR ENERGY SOCIETY OF INDIA - 629, 630,631

SOM, P. - 564 SOMASUNDARAM, B. - 199 SOOTHA, G.D. - 543 SRINIVASAMURTHY. N. - 464 SRINIVASAN, M. - 14B SRIRAMULU, V. 185,207,648 SRIVASTAVA, G.P. - 465 SRIVASTAVA, R.C. - 643 SRIVASTAVA, S. - 387,458,462 SRIVASTAVA, S.C. - 600 SRIVASTAVA, S.K. - 533 SRIVASTAVA, V.K. - 455,461 STHAPAK. B.K. - 057,283,339 SUBBARAD. G.V. - 607 SUBRAMANIAN, C.K.' - 628 SUBRAHMANYAM, A. - 463 SUDHAKAR, K. - 578 SUKHATME, S.P. -010,020,075,206 SURESH, D. - 159,160,161 SURI, R.K. - 541, 603 SURYANARAYANA, C.V. - 517 SWAHADEVI, B. - 667 SWAM I, N.K. - 389,437 SWARUP. G. - 103

TANDON, S.K. - 353
TANDON, T.N. - 673
TARAFDAR, R.N. - 588
TARNEKAR, M.G. - 376
TEWARI, J.P. - 002,011
TEWARY, V.K. - 112
THAMPURAN, M.K.V.V. - 441
THANVI, K.P. - 316,358,362
THIRUNAVUKKARASU, V. - 152
THOMAS, A. - 146,158
TIWARI, G.N. - 231
TIWARI, R.N. - 240
TIWARI, S.N. - 240
TRIPATHI, J.S. - 658
TYAGI, R.C. - 122

UDAYKUMAR, H. - 628 UNESCO - 602

VAIDYA, V.H. - 453 VARGHESE, Chacko - 067 VARMA, H.K. - 205
VARSHNEY, M.C. - 293,582
VATS, R.K. - 323
VAUGHAN, B.D. - 317
VENKATARAM, A. - 266
VENKATESH, A. - 197,209,215,226
VENKATESWARLU, U. 452,632,633,674
VENUGOPAL, S. - 268,271
VERMA, M.L. - 033,057
VERMA, R.D. - 261
VERMA, V.V.-006,241.
VIJ, Sanjay K. - 124
VON OPPEN, M. - 145

WAGH, A.G. - 483

XAVIER, C.F. - 386

ZADGAONKAR, A.S. 084,376

## LATE ADDITIONS

M. ARORA, N.K. and others (Materials Div., National Physical Lab., ew Delhi 110 012).

pu pressure technique for the synthesis ad growth of gallium phosphide flakes. ational Conf. on Crystallography. Madras. an 1977.

## 02. BHATTACHARYA, S. and others

OS solar cells on polycrystalline silicon. 1th Conf. on Solid State Devices. Tokyo 979.219.

O3. BHATTACHARYYA, T.K. and others (Central Mech. Engg. Res. Institute, urgapur-9. W.8.)

ompact food dryer. MERI Internal Report, Feb 1977.

O4. BHATTACHARYYA, T.K. and others (Central Mech. Engg. Res. Institute, urgapur - 9. W.B.)

olar thermo mechanical generator. MERI Internal Report. Nov 1977.

105. CHANDRA, Ashok (Monitoring Station, Suraj Kund Colony, lorakhpur, U.P.)

Theoretical afficiency of a solar engine in conjunction with selective surfaces. For of Arab Physical Society. Tripoli.1977.

OD6 CHANDRA, Ashok (Monitoring Station, Suraj Kund Colony, Gorakapur, U.P.)

Solar energy-prospects and future in India. Everymen's Science.; Sup 1978.

OO7. CHOCKALINGAM, Mary Julians and other (Central Electrochemical Res. Institute, Kareikudi 623 006.
Tamil Nadu).

Cadmium selenide heterojunction photovoltaic cell useful for solar energy conversion.

Proc. on III National Conf. on Power Sources. 1979.56-59.

DOB. GANDHIDASAN, P. (Dept. of Mech. Engg., Univ. of W.I., Trinidad, West Indies) and others.

Theoretical and experimental investigation of a countercurrent solar regenerator.

Proc. of the Int. Solar Energy Society
Silver Jubilee Congress: Sun II. Atlanta,
Georgia. May 1979. Vol.1; 686-90.

009. GARG, H.P. and others (Central Arid Zone Res. Institute, Jodhpur).

Design and development of a fruit and vegetable solar agricultural dryer. Int. Symposium on Arid Zone Res. and Development. Jo hpur. Feb 1978. Abstract II.9.2:143.

O10. GARG, H.P. and others (Central Arid Zone Res. Institute, Jodhpur).

Solar water heater cum steam cooker. Ind. and Eastern Engineer.120,8; 1978;315-7.

O11. GOGNA, P.K. and CHOPRA, K.L. (Dept. of Physics, Indian Institute of Technology, New Delhi 110 029).

Selective black nickel coatings on zine surfaces by chemical conversion.
Solar Energy.23,5;1979;405-8.

O12. GUPTA, B.K. and others (Dept. of Physics and Center of Energy Studies, Indian Institute of Technology, Delhi, Hauz Khas, New Delhi 110 029.).

Black Zn-dust pigmented solar selective costings for solar photothermal conversion. Proc. of Condensed Papers 2nd Miami Int. Conf. on Alternative Energy Sources. Miami Beach, Florida. Dec 1979;210-11.

013. GUPTA, S.P. and others (Univ. of Roorkee, Roorkee - 247 672).

Heat transfer in solar pond. Proc. of Condensed Papers. 2nd Miami Int. Conf on Alternative Energy Sources. Miami Beach, Florida. Dec. 1979;605-6.

O14. GURURAJA, J. (Dept. of Sc. and Tech., India) and RAMCHANDRAN, A. (Habitat, Nairobi, Kenya).

Characteristics of rural energy demand and major barriers and tasks and implementations of potentially viable solar technologies.

Proc. of the Int. Solar Energy Society Silver Jubiles Congress Sun II. Atlanta, Georgia. May 1979. Vol.2;1466-70.

015. HARIPRASAD, C.R. and others (Indian Institute of Technology, Madras 600 036).

Investigation on the prediction of thermal performance of compound parabolic concentrators.

Proc. of condensed papers. 2nd Miami Int.
Conf. on Alternative Energy Sources. Miami Beach, Florida. Dec 1979;9-10.

016. JAIN, G.C. and others. (Div. of Materials, National Physical Lab., New Delhi 110 012).

Diffusion of Ga into Si. Int. Symposium on Solid State Physics. Calcutta. Jan 1977. Also, pubd. in Ind. J. of Physics. 53 A; 1977;83. 017. JAIN, G.C. and others. (Materials Div., National Physical Lab., New Delhi 110 012).

Effect of capsule diameter on the size; GaAs platelets. National Conf. on Crystallography. Madras. Jan 1977.

O18. JAIN, G.C. and others (Materials Div., National Physical Lab., Maw Delhi 110 012).

Elimination of surface damages caused by Ga in closed capsule diffusions. Ind. J. of Pure and Applied Physics. 16; 1978;571.

019. KAMARAJ, G. and others (Indian Institute of Technology, Madras 600 036).

Solar energy in the field of distillation — design parameters and thermodynamic analysis of solar stills a numerical study.

Proc. of Condensed Papers. 2nd Miami Int. Conf. on Alternative Energy Source Miami Beach, Florida. Dec 1979.656—8.

<u>D20.</u> KAR, S. (Elect. Engg. Dept., Indian Institute of Technology, Kanpur - 208 D16).

Comparative study of various surface barrier solar cells on polysilicon for terrestrial application. Proc. of Condensed Papers 2nd Miami Int. Conf. on Alternative Energy Source Miami Beach, Florida. Dec 1979;94-5.

021. KAR, S. and others(Elect. Engg. Dept., Indian Institute of Technology, Kanpur 208 016).

Solar cell fabrication for terrestrial application.

Symposium on Frontiers in Materials Research. Kanpur.1977.

022. KUMAR, A. and SHARMA, T.P.

Non-linear susceptibility of GaAs. Ind. J. of Pure and Applied Physics. 17,1979;110.

023. KUMAR, R. (M.N. Regional Engg. College, Allahabad 211 004).

Optical and thermal analysis of linear solar receiver for process industries.

Proc. of Condensed Papers. 2nd Miami
Int. Conf. on Alternative Energy Sources.

Miami Beach, Florida. Dec 1979;220-1.

024. MALHOTRA, K.S. and NAHAR, N.M. (Central Arid Zone Res. Institute, Jodhpur).

Comparison of solar thermal and photovoltaic devices for the development of rural areas in arid zone. All India Seminar on Rural Application of Solar Energy, Bangalore.1979.

025. MANI, Anna and CHACKO, Commen. (Raman Res. Institute, Bangalore).

Attenuation of solar radiation in the atmosphere.

Proc. of the Int. Sclar Energy Society Silver Jubilee Congress: Sun II. Atlanta, Georgia. May 1979. Vol.3; 2208-12.

026. MANNAN, K.D. and SINGH, Daljit. (Mech. Engg. Dept., Punjab Agril. Univ., Ludhiana 141 804).

Possibilities of commercial applications of solar energy in India.
Commerce (Ann. No.). 135;1977;101.

O27. PAHOJA, Murlidher H. (Centre of Energy Studies, Indian Institute of Technology, New Delhi 110 029).

Automatic tracking device for focusing solar collectors.
Ind. Society of Agril. Engineers Annual Convention. Hyderabad .Jan.1976.

D28. PAHOJA, Murlidhar H. (Centre of Energy Studies, Indian Institute of Technology, New Delhi 110 029).

Use of solar energy for small and marginal farms.

Ind. Society of Agril. Engineers Annual Convention. Poons, Feb 1977.

629. PAHOJA. Murlidher H. (Centre of Energy Studies, Indian Institute of Technology, New Delhi 110 029).

Solar energy for irrigation pumping. Ind. Society of Agril. Engineers Annual Convention. Kharagpur. Dec. 1978.

O30. PATTANAYAK, S. and RAYCHALDHURI, B.C (Central Mech. Engg. Res. Institute, Durgapur 713 209).

Ejector coupled absorption refrigeration system for cold storage application using low temperature heat source from solar flat plate collectors. Patent Filed. 1978.

031. PATTANAYAK, S. and others (Central Mech. Engg. Res. Institute, Durgapur 713 209).

Report on design and performance of solar continuous grain dryer.

CMERI Internal Report. July 1979.

032. PRASAD, M. and others (Central Mech. Engg. Res. Institute, Durgapur 713 209).

Design considerations of solar process heating systems with multiple paraboloids. CMERI Internal Report. Mar. 1979.

O33. PRASAD, M. and others (Central Mech. Engg. Res. Institute, Durgapur 713

Effects of angular defocusing on solar concentration of peraboloidal reflectors. CMERI Internal report. Mar 1979.

O34. PRASAD, M. and others. (Central Mech. Engg. Res. Institute, Durgapur 713 209).

Open cycle solar refrigeration system for process cooling and airconditioning applications — a design report. CMERI Internal Report. Dec. 1978.

D35. RAMCHANDRAN, A. (Dept. of Sc. and Tech., Technology Bhavan, New Delhi).

Solar energy research and development in India.

Proc. UNESCO - World Meteorological Organization Symposium on Solar Energy.
Geneva, Switzerland. 1976.226-32.

036. RANI, Usha. (Centre of Energy Studies, Indian Institute of Technology, New Delhi 110 029).

Industrial solar water heating. Conf. on Utilization of Solar Heat in Industry and Agriculture. NICE, France. Oct. 1979.

037. RANI, Usha. (Centre of Energy Studies, Indian Institute of Technology, New Delhi 110 029).

Utilization of solar energy for drying of vegetables.
Int. Symposium on Post Harvest Technology and Utilization of Potato. New Delhi. Aug. 30—Sep. 2, 1979.

038. RAO, K.S. and BOKIL, K.K. (Central Salt and Marine Chemicals Res. Institute, Bhavnagar.)

Research needs in the solar energy field as applicable to rural areas.
Research Planning Workshop on Energy for Rural Development. Ahmadabad. Dec.1979.

039. RAV INDRA, N.M. and SR IVASTAV (Dept. of Physics, Univ. of Roorkee, Roorkee 247 672.).

Temperature dependence of the maximutheoretical efficiency in solar cel. Solar Cells.1,1; Nov. 1979;107-9.

040. SAHA, H. (Dept. of Physics, L of Kalyani, Kalyani).

Cadmium sulphide solar cell - an ov National symposium on Electronics or Telecommunication Engineering. Ca Oct.1977.

O41. SAHA, H. and others (Dept. of Physics, Univ., of Kalyani, Kalyani).

Electrical breakdown in Cu-doped pho Int. Symposium on Solid State Physic Calcutta. Jan. 1977.

942. SAHA, H. (Dept. of Physics, Un: of Kalyani, Kalyani).

Solar cell power system - Indian applications.
Proc. 2nd National Conf. on Power Sou Bombay. Nov. 1977.

<u>043.</u> SAHA, H. and others (Dept. of Physics, Univ. of Kalyani, Kalyani).

Studies on the improvement of perform of sintered Cu S/CdS solar cells. Ind. J. of Pure and Applied Physics,

044. SAINI, J.S. (Mech. Engg. Dept. Univ. of Roorkee, Roorkee).

Design, fabrication and short term performance of a solar pond. Proc.1st Brazilian Energy Congress, R: De Janerio. 1978. SAINI, J.S. (Mech. Engg. Dept., Univ. of Roorkee, Roorkee).

curn flow solar air heater.

3c. 4th National Heat and Mass Transfer aference. Roorkes. 1977.

5. SALARIYA, K.S. (Dept. of Mech. Engg., Punjab Agril. Univ., Ludhiana 141 004).

propriate technology for solar energy ilization.
oc. Seminar on Science and Rural Development Mountains. Nainital. Nov 1978.

7. SALARIYA, K.S. (Dept. of Med) - Engg., Punjab Agril. Univ., Ludhiana - 141 004)

oking by solar energy.
id. Society of Agril. Engineers Annual
invention. Kharagpur. Dec 1978.

SALARIYA, K.S. (Dept. of Mech. Engg., Punjab Agril. Univ., Ludhiana - 141 004).

olar appliances for housing design. roc. Int. Association for Housing Sc., Conf. hahran, Saudi Arabia. Dec. 1978⊎

49. SEN, S.K. and others (Indian Institute of Technology, Kharagpur).

roduction and characteristics of rice husk sh needed in production of solar grade illicon. Ind. Society of Agril. Engineers Annual Convention.1979.

150. SENGUPTA, S. and others.

Ohmic contact to CdS by electrolytic deposition. J. of Physics. 9;1976;1365.

051. SINGH, Daljit and GUPTA, Y.P. (Punjab Agril. Univ., Ludhiana 141 004).

Energy requirements of solar flash evaporation of sea water.

Proc. 30th Annual Convention of Ind. Institute of Chem. Engineers. Chandigarh. Dec. 1977.

O52. SINGH, Daljit and GUPTA, Y.P. (Punjab Agril. Univ., Ludhiana 141 004).

Heat pipe and its applications. Science Reporter. 14,1;1977;47.

053. SINCH, Daljit. (Punjab Agril. Univ., Ludhiana 141 004).

Solar energy - time for another look? Ind. Chem. Abs. 1,1;1979;41.

054. SINGH, Daljit and CHAUHAN, Rajinder Singh. (Punjab Agril. Univ., Luchiana 141 004).

Solar water heater. Chem. Engg.83,3;1977;106.

055. SINGH, Daljit and SALARIYA, K.S. (Punjab Agril. Univ., Ludhiana - 141 004).

Taking solar energy technology to the villages.
Ind. Society of Agril. Engineers Annual Convention. Pune. Feb 1977. Also, pubd. in Proc. "Taking Technology to the Villages" Seminar Chandigarh. Dec 1976.

O56. SINGH, Rajvir and others. (Rice Process Engg. Centre, Indian Institute of Technology, Kharagpur).

Nature silica in ash obtained by firing rice husk and its reduction and purification to obtain silicon for use in solar cells.
Ind. Society of Agril. Engineers Annual Convention. Pune. Feb 1977.

057. SINGH, Rajvir and others (Rice Process Engg. Centre, Indian Institute of Technology, Kharagpur).

Solar grade silicon from rice husk. Rice Report 1977, Int. Union of Food Sc. and Tech. Valeneva, Spain.1977 058. SINGH, R.P. and PANDE, P.C.

Solar energy utilization for rural development in arid zone of India. National Seminar on Physiological Basis of Crop Productivity and Harvesting Solar Energy in relation to Agril. Development. Aligarh. Mar. 1979.

059. SINGHAL, O.P. (Int. Crops Res.
Institute for the Semi-Arid Tropics,
Hyderabad 500 016).

Design, development and testing of 2 tons/day solar energy operated paddy paraboiling and drying unit for rural areas.

Proc. of Condensed Papers: 2nd Miami Int.
Conf. on Alternative Energy Scurces.
Miami.Beach, Florida. Dec. 1979;411-3.

O60. SINHA, Amitabha and CHATTOPADYAYA, S.K. (Physics Dept., Kurukshetra Univ., Kurukshetra 132 119).

Temperature dependence of open circuit photovoltage of a back-surface field semiconductor junction. Solid-State Electronics;22,10; Oct. 1979;849-52.

061. SINHA, R.K. and others.

Microwave studies on the heat treatment affect of CdS pellets.
Ind. J. Physics 51A;1977;197.

O62. SODHA, M.S. (Centre of Energy Studies, Indian Institute of Technology, New Delhi 110 029) and others.

Study on flat plate solar collectors under transient conditions. Proc. of the Int. Solar Energy Society Silver Jubilee Congress: Sun II. Atlanta, Georgia. May 1979. Vol.1; 331.

063. SWAMI, N.K. (Birla Institute of Tech. and Sc., Pilani 333 031).

Role of the interfacial layer in schottky berrier solar cells.

J. of Physics D: Applied Physics.12; 1979;

765. Also pubd. in Proc. of Symposium on Electron Devices. Pilani. Sep. 1978. I.23-I.32.

O64. SWAMI, N.K. (Birla Institute of Tech. and Sc. Pilani 333 031).

Temperature effect of p-n junction sil solar cell parameters.

Proc. of Symposium on Electron Devices Pilani, Sep 1978. I.14-I.22.

D65. VARGHESE, C.P.T. (22.Y.M.C. A. Hostel, EKM, Cochin, Kerala 68:

One-way valves:(for PV cell cooling, vacuum, semi-V and honeycomb covering of solar collectors; and also automat: fluid/gas/air flow controls).

Proc. of Condensed Papers. 2nd Miami Int. Conf. on Alternative Energy Source Miami Beach, Florida. Dec. 1979;214-6.

O66. VASEASHTA, A.K. (Indian Institution of Technology, New Delhi 110 0:

Fundamental mechanisms governing the performance of MOS - inversion layer solar cells.

Proc. of Condensed Papers 2nd Miami In Conf. on Alternative Energy Sources.

Miami Beach, Florida. Dec. 1979;99-101.

UENKATESH, A. and GUPTA, M.C. (Inc. Institute of Technology, Madra: 600 036).

Analysis of ammonia - water intermitts solar refrigerator operating with a flat plate collector. Int. Symposium and Workshop on Solar Energy. Cairo, Egypt. June 1978.

D68. VENKATESH, A. and GUPTA, M.C. (Indian Institute of Technology Madras 600 036).

Performance of solar refrigerator. 2nd Int. Solar Forum. Hamburg, West Germany. July 1978.

069. VERMA, Satym Dev.

Radiation, detectors and solar cells space applications, Group Meeting on Ion Implantation. Bor Dec. 1976.

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